

villages, ought to be carefully and correctly estimated. The result of enquiries instituted in different districts ought to be carefully compared, and inconcoherencies and differences explained. It is thus only that we can arrive at correct statistics regarding this great scourge, which, from the descriptions given, would, at its height, have borne no ill comparison to the great plague of London.

Various are the causes which are ascribed to have given origin to this epidemic,—want of drainage, exuberant jungle, accumulation of the filth of ages in cesspools, &c., come in for their share: nor does the railway, a novelty in this country, escape the odium of having brought the epidemic in its train. It would not be wide of the mark to admit that these causes might have contributed to accelerate the spread of the disease; and the railway might have obstructed the natural drainage of the country; but I am led to think, the real cause of the epidemic still lies undiscovered. It is erroneous to decide on the basis now set forth. Places similarly situated as respects the river and natural drainage fared far differently. At Kanchrapara the epidemic was violent, at Santipore it was scarcely felt. The same may be said of Beernugger and Ranaghat, which are within four miles distance of each other. So the real cause of the epidemic has, I think, yet to be discovered. From what I have personally observed, I have been struck at the number of undrained holes and cesspools in each village. The lower orders build their walls and floors with mud; and the brick used in the construction of the houses of the rich is made of clay, dug from neighbouring pools. The older and richer the village, the greater is the number of these undrained pools of water, breeding miasma and noxious effluvia. At Jagooly the natural drainage has been obstructed by the erection of bunds across the Sooty river, which runs south of the town. The imperial road also passes over this river; and no bridge is provided for the free passage of water. The series of tanks into which the bed of the Sooty has been thus converted is a fruitful source of malaria.

(Sd.) RAM SHUNKEE SEN,
Deputy Magistrate.

Memorandum from Baboo RAM SHUNKEE SEN, Deputy Magistrate,—(No. 596, dated Ranaghat, the 29th June 1869.)

FORWARDED to the magistrate of Nuddea, with reference to his No. 2061, dated 2nd June 1869.

From the Assistant Magistrate of Chocadangah, to the Magistrate of Nuddea,—(No. 282, dated the 25th June 1869.)

SIR,

With reference to your memorandum No. 2060, dated 2nd January 1869, on the subject of epidemic fever, the only villages in this sub-division in which the epidemic fever has prevailed are Natuda, Yoyrampore and Symdyna.

The first has suffered continually since 1860, the two others since 1864; in these the disease is due to the dense jungle.

From J. Tweedie, Esq., Joint Magistrate, to the Magistrate of Nuddea,—(No. 263, dated Kishnaghur, the 25th June 1869.)

SIR,

Your No. 2057, dated 2nd June 1869.

I regret to say that I have found it impossible to collect, within a fortnight, a history of the epidemic fever for the past nine years.

2. I am doing all I can to collect some information on the subject, which is a most intricate one, and more suited for detailed investigation during a cold-weather tour, than to be reported on off hand.

3. I have been obliged to apply to the police, and cannot say precisely when my final report may be ready; but no time will be lost in transmitting to you the result of my enquiries.

Statement shewing the villages in the sudder sub-division where epidemic fever was prevalent from 1860.

Names of thanahas.	Names of villages..	Date between which fever was prevalent.	REMARKS.
Chāprah	Moharajpore	From 1860-61 to 1860	
Kissengunge	Digumborpore	" " 1863	
	Ashwari	" 1863 " 1864	
	Bahadoorpore	Ditto	
	Bhalooka	" 1865-66	
	Bhandarcola	" 1863-64	
	Bohirgachia	Ditto	
	Bramhonpara	" 1864-65	
	Bramhunpoowaria	Ditto	
	Deypara	Ditto	
	Dhooboolia	" 1863-64	
	Digunggor	" 1862-63	
	Dagachia	Ditto	
	Gobrapota	" 1863-64	
	Jatrapore	" 1866-69	
	Joania	" 1865-66	
	Joypore	" 1863-69	
Kutwali	Kamarhati	" 1864-65	
	Kishnaghur	" 1863-65	
	Kamarpara	" 1863-64	
	Khanpore	Ditto	
	Mayacole	Ditto	
	Nawapara	Ditto	
	Nobodwipa	Ditto	
	Naldohe	Ditto	
	Paninala	Ditto	
	Poocooria	" 1865-66	
	Roccooupore	" 1863-64	
	Roodropara	Ditto	
	Shadhonpara	Ditto	
	Shinghatee	Ditto	
	Shondanga	Ditto	
	Shorack	Ditto	
	Badhillogram	" 1860-65	
Nakashipara	Bangoniah	Ditto	
	Miryipara	Ditto	
	Rampara	Ditto	

Memorandum from J. TWEEDIE, Esq., Magistrate of Kishnaghur,—(No. 274, dated Kishnaghur, the 1st July 1869.)

FORWARDED in answer to the magistrate's No. 2057, dated 2nd January 1869.

From the Deputy Magistrate of Bongong, to the Magistrate of Nuddea,—(No. 258, dated the 17th July 1869.)

With reference to your memorandum No. 2062, dated 2nd ultimo, on the subject of informations regarding epidemic fever, I have the honor to send herewith a tabular statement therein called for.

Bongong Sub-division.

Year.	Names of villages.	Population.	Number of persons attacked.	Number died.	Duration of sickness.	Degrees of the severity of the sickness.	Situation of village or probably cause of its insanitary condition.
1860-61	Borrapore	400	300	200	About 3 years ...	Severe	On the side of a bheel.
"	Nishchindypore	250	180	100	" 2 "	Ditto	Jungly place.
"	Shimoolia	500	375	900	" 4 "	Ditto	Ditto.
"	Iespore	500	150	92	" 2 months	Ditto	On the sides of a river.
"	Moheshpore	3,000	300	200	" 5 "	Ditto	Ditto of the river Bhoirub.
1861-62	Ranthapara	450	200	150	" 1 year ...	Ditto	Ditto of a khal.
1862-63	Sosundanga	400	200	130	" 3 months	Ditto	Ditto of the Issamutty.
"	Puttelpore	2,068	400	250	" 8 "	Ditto	Ditto of a bawore. (sic)
1863-64	Mondhurpore	260	125	300	" 2 "	Ditto	Ditto of a bheel.
"	Gobnpore	1,000	815	115	" 6 "	Ditto	Ditto of a bawore.
"	Kewippara	408	175	65	" 7 "	Ditto	Ditto ditto.
"	Garapotta	1,473	438	144	" 9 "	Ditto	Ditto ditto.
"	Komlapore	1,093	383	111	" 5 "	Ditto	Ditto
"	Shoondopore	271	119	58	" 4 "	Not severe	Ditto of a bawore.
"	Moreshpore	2,800	1,000	250	" 4 "	Severe	Ditto of the Bhoirub.
"	Poorunderpore	450	150	75	" 2 "	Ditto	Ditto ditto.
1864-65	Jhondanga	298	82	60	" 2 "	Not severe	Ditto of the Issamutty.
"	Parmadoleh	499	180	79	" 8 "	Ditto	Ditto ditto.
"	Korungo	489	60	42	" 6 "	Ditto	In the midst of a field.
"	Hurnynathpore	461	51	32	" 5 "	Ditto	Ditto ditto.
"	Gnatoli	559	200	125	" 5 "	Severe	Ditto ditto.
"	Kandilla	592	300	150	" 5 "	Ditto	Ditto ditto.
1865-66	Shindrali	1,155	165	71	" 6 "	Not severe	On the side of a bawore.
"	Joka	99	25	14	" 3 "	Ditto	In the midst of a field.
"	Lowtara	158	91	18	" 3 "	Ditto	Ditto ditto.
"	Poorpara	650	300	175	" 1 year ...	Severe	On the side of a bawore.
"	Samunta	1,500	400	150	" 6 months	Ditto	Ditto of Kodla. (sic)

1866-67	Konnera	350	50	25	25	1½ "	Not severe	Ditto of a bawore.
	Sheonderpore	250	50	25	25	1 ½ "	Ditto	In the midst of a field.
	Mattelahara	325	100	60	60	1 ½ "	Severe	Ditto ditto.
	Hoodia	260	60	25	25	1 ½ "	Not severe	On the side of a bheel.
	Kooley	512	45	20	20	3 ½ "	Ditto	Ditto of kolla.
	Bunghat	271	47	21	21	2 ½ "	Ditto	Ditto ditto.
	Ektarpore	560	200	80	80	3 ½ "	Severe	Ditto of Futtelpore bawore.
	Hoodahseeranpore	700	302	150	150	3 ½ "	Ditto	In the midst of a field.
	Moleshipore	2,550	850	100	100	1 ½ "	Ditto	On the side of the river Bhairab.
	Anakala	58	37	25	25	1 ½ "	Ditto	Ditto of river Jumna.
1867-68	Barackpore	390	50	25	25	1 ½ "	Not severe	Ditto of bawore.
	Gopalnugur	2,000	600	300	300	2 ½ "	Ditto	Ditto ditto.
	Panchpotta	350	150	100	100	1 ½ "	Severe	Ditto of the Issamutty.
	Andobe	602	205	109	109	1 year ...	Ditto	Ditto of Betha.
	Bansghhatta	771	97	52	52	6 months	Ditto	Ditto of kolla.
	Nekhpore	885	105	40	40	5 ½ "	Not severe	Ditto of a bawore.
	Shankoon	2,074	500	175	175	3 ½ "	Severe	Ditto of the Issamutty.
	Panchitta	489	40	33	33	2 ½ "	Not severe	Ditto of a bawore.
	Asbaroo	560	45	39	39	2 ½ "	Ditto	Ditto ditto.
	Jhoudunga	112	40	25	25	1 ½ "	Severe	Ditto of the Issamutty.
1868-69	Bajaekhauspore	931	208	61	61	3 ½ "	Not severe	In the midst of a field.
	Bagampore	3,028	250	38	38	1 ½ "	Ditto	On the side of a bawore.
	Mallaria	1,502	800	69	69	1 ½ "	Severe	Ditto of the Issamutty.
	Shookpokhuri	1,083	150	44	44	1 ½ "	Ditto	In the midst of a field.
	Pooliaupore	254	50	28	28	1 week ...	Ditto	On the side of the Issamutty.
	Bolibuddrapore	250	100	26	26	3 " ...	Ditto	Ditto of a bawore.
	Solanempore	340	90	82	82	½ month	Ditto	Ditto ditto.
	Shankoon	1,950	100	47	47	½ " ...	Ditto	Ditto of the Issamutty.
	Shatpotta	177	20	14	14	1 week ...	Ditto	In the midst of a field.

MOHEEMA CHUNDER PAL,

Deputy Magistrate.

 BONGONG, }
The 17th July 1869.

From J. WESTLAND, Esq., Officiating Magistrate of Jessore, to the Commissioner of the Presidency Division,—(No. 177G, dated Jessore, the 28th November 1869.)

I HAVE the honor to forward the map of epidemic fever required by your No. 12, dated 26th May 1869. You will observe that it shews that the nature of the fever was simply that it extended all over the district, so that there is no occasion for me to submit a report as to any presumable local causes. There is fever every year, after the commencement of the cold season in this district, and it is really difficult to say that it tends towards certain localities, or seems affected by any causes that are common to the whole district. The outbreak of the cold season 1865-66 was of longer duration and more violent than in other years, and it is the only year during which any remarkable outbreak took place. Almost all the marks on the map refer to that outbreak, and there is little besides that outbreak to notice beyond a few isolated cases, such as Ghoreebpore last year.

In default of colors, the places are marked with a line and a number, which gives the year. Thus 5, means 1865, and 6, 1866.

The map will, I am afraid, tend but little to elucidate the history of epidemic fever; but the reason of this is, that the circumstances of the fever in this district afford very little ground for inferences as to particular causes or effects.

Statement of villages in the District of Jessoore affected by the late epidemic fever of 1865-66.

Parganahs.	Villages.	Years.	Percentage mortalities.	REMARKS.
Mahomedshye ...	Romarbaugh	1865-66...	2½	
	Jurudah	Ditto ...	3	
	Bhojanipore	Ditto ...	2	
	Hurishpore	Ditto ...	52-78	
	Hudapore	Ditto ...	2	
	Kholishakondee	Ditto ...	3	
	Bhooputtipore	Ditto ...	3	
	Bogasara	Ditto ...	2	
	Tritanee	Ditto ...	2	
	Kholbarria	Ditto ...	2	
	Rajnaghur	Ditto ...	1	
	Bolarampore	Ditto ...	1	
	Purabatti	Ditto ...	2½	
	Narainpore	Ditto ...	1	
	Hedaandalputta	Ditto ...	1	
	Hurjnakoonia	Ditto ...	2	
	Tulla	Ditto ...	...
	Fulses	Ditto ...	...
	Jungleparra	Ditto ...	...
	Parbuttypore	Ditto ...	1	
	Baroda	Ditto ...	2	
	Kotubpore	Ditto ...	...
	Fulbarria	Ditto ...	1	
	Roopdoba	Ditto ...	2	
	Patooria	Ditto ...	2	
	Chandpore	Ditto ...	2	
	Baradee	Ditto ...	2	
	Khajora	Ditto ...	2	
	Jhunda	Ditto ...	2	
	Gobiudpore	Ditto ...	2	
	Kalliespore	Ditto ...	2	
	Karrapara	Ditto ...	2	
	Hamda	Ditto ...	2	
	Baroipara	Ditto ...	2	
	Landhia	Ditto ...	2	
	Chetolia	Ditto ...	2	
	Jadurapara	Ditto ...	2	
	Doorgapore	Ditto ...	2	
	Hoodabattia	Ditto ...	2	
	Bazrocknarainpore	Ditto ...	2	
	Gana	Ditto ...	2	
	Jalallpore	Ditto ...	2	
	Taleshur	Ditto ...	2	
	Lukhicoonda	Ditto ...	2	
	Bullorampore	Ditto ...	2	
	Dhoodshur	Ditto ...	2	
	Kotchandpore	Ditto ...	2	
	Solamanpore	Ditto ...	2	
	Bullabarrria	Ditto ...	2	
	Paspattila	Ditto ...	2	
	Ballidanga	Ditto ...	2	
	Tilia	Ditto ...	2	
	Singee	Ditto ...	2	
	Mustafafor	Ditto ...	2	
	Tilcoopi	Ditto ...	2	
	Horgobindpore	Ditto ...	2	
	Kemulhut	Ditto ...	2	
	Nuldanga	Ditto ...	2	

Pergunnahs.	Villages.	Years.	Percentage mortalities.	REMARKS.
Mahomedshye. —(Continued.)	Dhouashurgatti	1865-66...	2	
	Jethur Bhabanipore	Ditto ...	2	
	Kuliehurnapote	Ditto ...	2	
	Lohojhang	Ditto ...	2	
	Kanchunagur	Ditto ...	2	
	Doorgapore	Ditto ...	2	
	Pabohatty	Ditto ...	2	
	Palami	Ditto ...	2	
	Fazilpore	Ditto ...	2	
	Foolia	Ditto ...	2	
	Dhoodshur	Ditto ...	2	
	Woomedpore	Ditto ...	2	
	Baroipara	Ditto ...	2	
	Salcoopa	Ditto ...	2	
	Hara	Ditto ...	2	
	Sreerampore	Ditto ...	2	
	Sreepore	Ditto ...	2	
	Borrisaut	Ditto ...	2	
	Nohatta	Ditto ...	2	
	Radhanughur	Ditto ...	2	
	Hazrapore	Ditto ...	2	
	Nareehatty	Ditto ...	2	
	Ramnughur	Ditto ...	2	
	Doorgapore	Ditto ...	2	
Nuldee	Mogoora	Ditto ...	1	
	Pala	Ditto ...	1	
	Denodpore	Ditto ...	1	
	Mahomedpore	Ditto ...	1	
	Sotogatpore	Ditto ...	1	
	Amria	Ditto ...	1	
	Rajapore	Ditto ...	1	
	Nohatta	Ditto ...	1	
	Ponneshupore	Ditto ...	1	
	Joyrampore	Ditto ...	1	
	Nalia	Ditto ...	1	
	Savapore	Ditto ...	1	
	Baliadanga	Ditto ...	1	
	Nuldee	Ditto ...	1	
	Majpara	Ditto ...	1	
	Mogoora	Ditto ...	1	
	Sreehaut	Ditto ...	2	
	Digga	Ditto ...	2	
	Boicantpore	Ditto ...	2	
	Earibhang	Ditto ...	2	
	Sahabazpore	Ditto ...	2	
	Dhopadoba	Ditto ...	2	
	Chorkalee	Ditto ...	2	
	Moochira	Ditto ...	2	
	Ramnathpur	Ditto ...	2	
	Lohagurrah	Ditto ...	2	
	Arera	Ditto ...	2	
	Lukhipassa	Ditto ...	2	
	Paneet	Ditto ...	2	
	Chatalhattipara	Ditto ...	2	
	Noapara	Ditto ...	2	
	Panchoria	Ditto ...	2	
	Bhawkhally	Ditto ...	2	
	Ghorakbally	Ditto ...	2	
	Nurail	Ditto ...	2	
	Rozkhally	Ditto ...	2	
	Shakhatee	Ditto ...	2	

Pergunnahs.	Villages.	Year.	Percentage mortalities.	REMARKS.
Nuldee. ² (Con-	Dabapara	1865-66...	2	
	Gubra	Ditto ...	2	
	Dhoriapur	Ditto ...	2	
	Barpara	Ditto ...	2	
	Diggoolia	Ditto ...	2	
	Churkhalee	Ditto ...	2	
	Burrekalia	Ditto ...	2	
	Manikoolia	Ditto ...	2	
	Madbulipur	Ditto ...	2	
	Ranagauth	Ditto ...	2	
	Dhoogram	Ditto ...	2	
	Shidhipara	Ditto ...	2	
	Sheetkhalee	Ditto ...	2	
	Boitolla	Ditto ...	2	
Essakpur	Katoolia	Ditto ...	2	
	Bandanga	Ditto ...	2	
	Narecoolbaria	Ditto ...	2	
	Tolcoopee	Ditto ...	2	
	Khajoora	Ditto ...	2	
	Khanpur	Ditto ...	2	
	Dohakhoola	Ditto ...	2	
	Sooltannagur	Ditto ...	2	
	Jaundia	Ditto ...	2	
	Hogladanga	Ditto ...	2	
	Moothorapur	Ditto ...	2	
	Gooroolia	Ditto ...	2	
	Kologpara	Ditto ...	2	
	Kasthbangla	Ditto ...	2	
Sahoojial	Samanugur	Ditto ...	2	
	Chowgatches	Ditto ...	2	
	Jamria	Ditto ...	2	
	Monmothopur	Ditto ...	2	
	Majulee	Ditto ...	25	
	Chandpur	Ditto ...	25	
	Digelshinga	Ditto ...	25	
	Koirapara	Ditto ...	25	
	Pitumburpur	Ditto ...	25	
	Janghirpur	Ditto ...	25	
	Fotapur	Ditto ...	25	
	Boirah	Ditto ...	25	
	Palna	Ditto ...	25	
	Monohurpur	Ditto ...	17	
	Khoertolla	Ditto ...	17	
	Puratonkoshah	Ditto ...	68	
	Sakhatty	Ditto ...	50	
	Barandee	Ditto ...	50	
	Sultanpur	Ditto ...	50	
	Jhumghumpore	Ditto ...	50	
	Neelgunge	Ditto ...	50	
	Khorkee	Ditto ...	50	
	Bangchur	Ditto ...	50	
	Sunkurpur	Ditto ...	50	
	Baliidaugah	Ditto ...	50	
	Moralee	Ditto ...	50	
	Ashanugur	Ditto ...	50	
	Ramnugur	Ditto ...	15	
	Battoria	Ditto ...	20	
Syedpur	Aprah	Ditto ...	57	
	Singah	Ditto ...	5	

Pergunnahs.	Villages.	Years.	Percentage mortalities.	REMARKS.
Syedpore... <i>(Continued.)</i>	Nurrendropur	1865-66...	5	
	Mohakal	Ditto ...	5	
	Jozpore	Ditto ...	2	
	Machua	Ditto ...	2	
	Khanpur	Ditto ...	60	
	Fedipur	Ditto ...	5	
	Majstpur	Ditto ...	5	
	Jumlah	Ditto ...	5	
	Tagoria	Ditto ...	5	
	Kalligunge	Ditto ...	5	
	Keshubpore	Ditto ...	5	
	Bamundanga	Ditto ...	5	
	Moolgram	Ditto ...	5	
	Sadbaria	Ditto ...	5	
	Trimohinee	Ditto ...	5	
	Jhappa	Ditto ...	5	
	Bankra	Ditto ...	5	
	Bulha	Ditto ...	5	
	Gudokhalee	Ditto ...	5	
	Erendah	Ditto ...	5	
Rambanderpore	Ghossnagger	Ditto ...	2	
	Nutla	Ditto ...	2	
	Mohindee	Ditto ...	2	
	Baroochath	Ditto ...	2	
	Ataroois	Ditto ...	2	
	Qalla	Ditto ...	2	
	Dhonganorla	Ditto ...	2	
	Arooshoghur	Ditto ...	2	
	Reypore	Ditto ...	2	
	Kassimnagur	Ditto ...	2	
	Aladeepur	Ditto ...	2	
	Kazeepatia	Ditto ...	2	
	Rojukpur	Ditto ...	2	
	Kopilmoti	Ditto ...	2	
	Nochirpore	Ditto ...	2	
	Sreerampore	Ditto ...	2	
	Pattimaree	Ditto ...	2	
	Huridashkatti	Ditto ...	2	
	Wootoodanga	Ditto ...	2	
	Shonatonkath	Ditto ...	2	
	Kaietpara	Ditto ...	2	
	Koshkholla	Ditto ...	2	
	Gobindpore	Ditto ...	2	
Shahoosh	Bhankar	Ditto ...	2	
	Porakath	Ditto ...	3	
	Bandeekatti	Ditto ...	2	
	Tantolltolla	Ditto ...	2	
	Modukholee	Ditto ...	2	
	Digglia	Ditto ...	2	
	Talikhallee	Ditto ...	2	
	Foolbari	Ditto ...	2	
	Talikhallee	Ditto ...	2	
	Taltillah	Ditto ...	2	
	Hatalbonia	Ditto ...	2	
	Bajapore	Ditto ...	2	
	Khalboonia	Ditto ...	2	
	Hooglabonia	Ditto ...	2	
	Berat	Ditto ...	2	
	Foottollah	Ditto ...	2	
	Foolbaria	Ditto ...	2	
	Jeypore	Ditto ...	2	

Pergunnahs.	Villages.	Year.	Percentage mortalities.	REMARKS.
Shahoosh.—(Con- tinued.)	Baliadanga	1865-66...	2	
	Karia	Ditto ...	2	
	Narainkhallees	Ditto ...	2	
Molooyee	Chandkhallees	Ditto ...	2	
	Paikgatsha	Ditto ...	2	
	Soladongha	Ditto ...	2	
	Kamurkhola	Ditto ...	2	
	Tildongah	Ditto ...	2	
Selimabad	Kallygunge	Ditto ...	2	
	Madhubkuth	Ditto ...	2	
	Horakhallee	Ditto ...	2	
Chagontea	Noapara	Ditto ...	2½	
	Dhopadee	Ditto ...	2½	
	Taltollah	Ditto ...	2½	
	Wootardees	Ditto ...	2½	
	Rajghat	Ditto ...	2½	
	Dhokinthees	Ditto ...	2½	
	Tikee	Ditto ...	2½	
	Fooltollah	Ditto ...	2½	
	Alka	Ditto ...	2½	
	Damedhur	Ditto ...	2½	
	Masali	Ditto ...	2½	
	Atra	Ditto ...	2½	
	Gillatollah	Ditto ...	2½	
	Digoolia	Ditto ...	2½	
	Mohashupore	Ditto ...	2½	
	Dowlutpore	Ditto ...	2½	
	Pubnapore	Ditto ...	2½	
	Khalishpore	Ditto ...	2½	
	Khoclina	Ditto ...	2½	
	Jamria	Ditto ...	2½	
	Darootia	Ditto ...	2½	
	Roodhangurra	Ditto ...	2½	
	Hazidanga	Ditto ...	2½	
	Gulna	Ditto ...	2½	
	Notoon	Ditto ...	2	
	Domoris	Ditto ...	17	
	Bandurpara	Ditto ...	2	
	Dhokinmokal	Ditto ...	2	
	Bejipore	Ditto ...	2	
	Bamundia	Ditto ...	2	
	Gonrikhona	Ditto ...	2	
	Narainpore	Ditto ...	2	
	Hudd	Ditto ...	25	
	Maderdanga	Ditto ...	25	
	Panjea	Ditto ...	25	
Ramchanderpore	Sreerampore	Ditto ...	2	
	Shahupore	Ditto ...	2	
	Shikupore	Ditto ...	2	
	Ghopsbana	Ditto ...	2	
	Moonoohraghur	Ditto ...	2	
	Meherpore	Ditto ...	2	
	Shogurdaree	Ditto ...	2	
	Bagga	Ditto ...	2	
	Padpore	Ditto ...	2	
	Noakati	Ditto ...	2	

Pergunnahs.	Villages.	Year.	Percentage mortalities.	REMARKS.
Ramebanderpore	Mirjapore	1865-66...	2	
<i>(Continued.)</i>	Tolla	Ditto ...	2	
	Catchoa	Ditto ...	2½	
Selimabad	Bishkallee	Ditto ...	2½	
	Sangdia	Ditto ...	2½	
	Ramnathpore	Ditto ...	2½	
	Morrellgunge	Ditto ...	2½	
	Saralia	Ditto ...	2½	
	Badartolla	Ditto ...	2½	
	Naibalpore	Ditto ...	9½	
	Sorabpore	Ditto ...	2½	
	Gellatolla	Ditto ...	2½	
	Bahirdia	Ditto ...	2½	
Hoogla and Cheroolia.	Samantoshana	Ditto ...	2½	
	Deapara	Ditto ...	2½	
	Rohimabad	Ditto ...	2½	
	Gomalee	Ditto ...	2½	
	Karapara	Ditto ...	2½	
	Bachbaria	Ditto ...	2½	
	Fottapore	Ditto ...	2½	
	Boictpore	Ditto ...	2½	
	Bistpore	Ditto ...	2½	
	Baghaut	Ditto ...	2½	
	Hurrikhallee	Ditto ...	2½	
	Gallapara	Ditto ...	2½	
	Panighat	Ditto ...	2½	
	Chapatolla	Ditto ...	2½	
	Jatrapore	Ditto ...	2½	
	Moolghur	Ditto ...	2½	
	Kohabhair	Ditto ...	2½	
Sooltanpore	Aetal	Ditto ...	2½	
	Garadhair	Ditto ...	2½	
	Woodopore	Ditto ...	2½	
	Korsa	Ditto ...	2½	
	Dewtodanga	Ditto ...	2½	
	Dooroolin	Ditto ...	2½	
	Baroipara	Ditto ...	2½	
	Gangnee	Ditto ...	2½	
	Patarkhool	Ditto ...	2½	
	Khoonmarool	Ditto ...	2½	
Belloolia	Okenakhola	Ditto ...	2½	
	Patool'a	Ditto ...	2½	
	Koshna	Ditto ...	2½	
	Pattiladanga	Ditto ...	2½	
	Patilahauga	Ditto ...	2½	
	Kerbaria	Ditto ...	2½	
	Gopalnagar	Ditto ...	2½	
	Sreecultolla	Ditto ...	2½	
	Chandneemobut	Ditto ...	2½	
	Senhatti	Ditto ...	2½	
	Panighauta	Ditto ...	2½	
	Diggla	Ditto ...	2½	
	Baranehpore	Ditto ...	2½	
	Noyebatti	Ditto ...	2½	
	Masargath	Ditto ...	2½	
	Doomra	Ditto ...	2½	
	Ambaria	Ditto ...	2½	
	Gaza	Ditto ...	2½	
	Ghesegatti	Ditto ...	2½	

J. WESTLAND,
Officiating Magistrate.

Report of a Tour of Inspection on the Soane Canal Works by the Chief Engineer of Irrigation.

From COLONEL F. H. RUNDALL, R.E., Joint-Secretary to the Government of Bengal, in the Public Works Department, Irrigation Branch, to the Secretary to the Government of India, in the Public Works Department.—(No. 821, dated 14th February 1870.)

I AM directed to forward the accompanying memorandum by the chief engineer of Irrigation, detailing the result of his inspection of the works which are being carried on in connection with the Soane canal project.

The Lieutenant-Governor trusts the Government of India will agree with him in considering that the progress which has been made during the past twelve months is satisfactory, and creditable alike to the superintending engineer and to all the officers under his orders.

Memorandum by COLONEL F. H. RUNDALL, R.E., Chief Engineer, Bengal, Irrigation Department.

On the 14th January I reached Arrah, the present head-quarters of the superintending engineer, Soane circle, and on the 18th I started with him along the line of the Arrah canal, the whole length of which has now been marked out from the point where it leaves the western main canal to the junction with the Ganges. For the first 24 miles of the distance, plans and estimates have been already submitted to this Government by the superintending engineer; but, under the recent orders of the Government of India, these plans have not been forwarded, pending the completion of the surveys and estimates for the whole line. The tract of country included between the river Soane and the drainage stream called the Kao, comprising an area of 866 square miles, has been minutely cross-levelled, with sections taken at a mile apart, so that the features of the country have been perfectly mapped, and the direction of the main line, as well as that of the principal distributaries, is at once apparent.

2. I rode along the whole length of the line, 24 miles of which, as above observed, have been estimated for in detail, and the surveys of the remainder are in course of preparation.

3. On arrival at Dehree I proceeded to inspect the work, which has been carried out there thus far—the earth-work for the tramway from the quarries to the river has been completed, with the exception of the top dressing. The cover stones have yet to be laid on the culverts.

It has been possible to collect only about 6,000 sleepers at present for the tramway, but the superintending engineer expects to have all the rest supplied during the present season.

Thirteen bungalows and one office have been finished and are occupied, and 12 more are in course of erection.

Lines for the accommodation of 3,000 coolies have been completed, and for 2,000 more are in course of construction.

Nine blocks of buildings for native clerks, &c., have been finished and are occupied.

A large quantity of the machinery and stores sent out from England have been conveyed to Dehree. Very good arrangements have been made by the superintending engineer for this rather difficult operation, by engagements entered into with an influential contractor for the conveyance by country carts of all such machinery as can be possibly stowed on them, while special carts have been built at the workshops for the engines and other heavy machinery, which, with very few exceptions, have been delivered without accident,—a subject for congratulation, considering the imperfect roads which exist in Shahabad.

One shed composed of angle-iron uprights, with stone walls and corrugated zinc roof, has been hastily run up for present purposes as a workshop, in which a few of the machines have been put together and the most pressing work has been turned out. Temporary sheds have likewise been erected for the stowage of the stores and materials which are daily arriving; and, as it was necessary to ensure the safe custody of the timber and other stores which are not placed in the sheds, an enclosure wall of dry rubble-stone has been built up round the space enclosed for the workshops and stores.

4. The plans for the permanent workshops had been drawn out before my arrival, and after examining them I directed the estimates to be prepared and submitted without delay. It is most important that these buildings should be constructed as soon as possible, for the heat at Dehree is so excessive, that it is impossible for coolies to work unless thoroughly sheltered; while the valuable machinery would be perfectly ruined, unless protected from the clouds of dust which envelop the place during the time that the westerly winds prevail. About 500 logs of sal have been procured, at very reasonable prices, from the timber marts on the Ganges for constructing the frames of the stone wagons, the iron-work of which has all arrived. The operations on the Soane forests have been carried on satisfactorily as far as the felling of the timber is concerned, though difficulty has been experienced in its removal and conveyance to Dehree.

5. *Anicut.*—The foundation blocks for the lower retaining walls of the under sluices have been built, and operations to sink them commenced by means of Poursacres' excavator. The action of this tool was most satisfactory, and it is so simple that, though the coolies employed upon it were quite inexperienced, yet in half an hour the gangs who were sinking the eight blocks, which were being experimented upon, worked at the rate of one lift per minute, and

the blocks sunk from 9 to 10 inches per hour. The mortar with which the blocks had been built, however, was inferior; and as one of them cracked badly, it was thought better to stop the sinking and remove the injured block at once. The lime which had been used was that obtained from the quarry at Murgohi, in which there are many varieties of limestone. I was not satisfied with the quality of the lime, and directed its discontinuance for all work in the river bed, as the "kunkur," or nodular limestone, which is procurable in sufficient quantities, possesses all the properties of hydraulic mortar, and is the best that can be used. The blocks were built of rubble-stone, and the curbs are made of bamboos, so fitted together as to make a very stiff frame. In order to lessen the difficulty of laying the concrete flooring 4 feet below the surface of the water in the river, the superintending engineer has proposed to sink masonry blocks under the whole floor; and, by thus dividing the spaces, the setting of the concrete will proceed more surely and effectively. The works which it is expected will be carried out this season, are the foundation and flooring to the under sluices, the abutments, the head sluices to the western main canal, and the locks on both flanks; also 800 to 700 feet in length of the foundation of the anicut itself. A large quantity of materials, both stone and lime, has been prepared and stacked. The excavations for the head sluices and locks have been taken out to within 6 feet of floor-level, and the masonry, it is expected, will be commenced in another month.

6. *Stone Quarries.*—A good commencement has been made in opening the stone quarries at Dhodand, along a face measuring nearly half a mile in length. About 4,00,000 cubic feet of stone have been quarried and stacked, and a gang of 600 men was at work on the day that I visited the quarries; but there had been an unsuccessful strike amongst the laborers for higher wages shortly before. On the right bank, at Baroon, the excavation for the lock and anicut abutment had made good progress, and large quantities of limestone and firewood had been collected, and the manufacture of bricks also was in progress.

7. At Baroon two small bungalows for assistants had been built, and a third bungalow for the executive engineer was in course of erection.

8. The total number of laborers employed on the works connected with the anicut was about 8,500.

9. *Canals.*—The eastern main canal has been commenced almost throughout the whole eight miles from the head to the Poon-poon. It had been set out for a width of 60 feet at base before the orders of the Government of India limiting the width to 50 feet had been communicated; but as the nature of the soil will admit of slopes of $1\frac{1}{2}$ to 1, the actual sectional area of excavation will be about the same as a width of 60 feet at base with side slopes of 2 to 1. A very large quantity of work has been done, and there seems every reason to expect that the excavation of the eight miles will be completed during the present season, with the exception of the deep cutting near the head. The refusal of the Government of India to sanction at present the head sluices and the bridge for the Trunk Road will, however, prevent the canal being of use as early as it might otherwise be. About 2,500 people were employed on this canal. I visited the site of the Poon-poon aqueduct. A set of borings had been taken, and a section drawn shewing the different strata of soil met with in the line of the aqueduct.

10. On the western main canal, with the exception of three miles situated between the 9th and 12th mile, ground has been broken along the whole twenty-three miles between Dohree and the Trunk Road crossing beyond Sasseram. About one-third of the work in the deep excavation at the head has been finished, and the last ten miles are in a very forward state. Very little, however, has been done as yet towards collecting material for the syphons and other masonry works. The canal here has likewise been laid out for a 60 feet base, which is exactly one-third of the full ultimate width; and, as so much had been done, and by the reduction in the slopes the sectional area would be nearly the same, I instructed the superintending engineer to adhere to that width. The progress made on the earthwork of this canal is very satisfactory; and, if more force could be brought to bear on the deep excavations at the head, I think it by no means improbable that, by the time the floods of 1871 arrive, the works should be sufficiently advanced to admit of 4 feet of water being let into the canal. There was a force of 4,500 people employed upon it. Thus from the Poon-poon to Sasseram, a distance of thirty miles measured along the two canals, there are nearly 11,000 men in all employed.

11. The rates at which the work thus far has been executed are somewhat less than those allowed for the earthwork; but, on going carefully into the data, the rates allowed for the masonry are insufficient and will have to be raised. The total sum sanctioned for the head works will, as far as I can see, be sufficient, but the cost of the individual works will be somewhat different. That of the anicut will be less, while that of the sluices and the locks will be greater.

12. Besides the works above detailed, the whole length of the Arrah canal, sixty miles, and fifty miles more of the western main canal, have been staked out, as well as forty miles of the branch canal to Patna.

13. Seeing that nearly the whole staff has had to be collected; their office establishments organized; shelter, of which there was literally next to nothing previously available, provided; and a season of extraordinary heat, aggravated by great scarcity to contend with, I consider the progress which has been made during the last twelve months exceedingly creditable to the superintending engineer and all the executive officers under his orders.

From COLONEL J. C. ANDERSON, R.E., Officiating Deputy Secretary to the Government of India, in the Public Works Department, to the Joint-Secretary to the Government of Bengal, in the Public Works Department, Irrigation Branch,—(No. 103, dated the 24th February 1870.)

I am directed to acknowledge receipt of your letter No. 821, dated the 14th instant, submitting an inspection report, by chief engineer, of the works under construction in connection with the Sonne Canal Project, and in reply to state that the Governor General in Council concurs with his Honor the Lieutenant-Governor in considering that the progress reported is highly satisfactory, and reflects credit on all the officers concerned.

Abstract of the Results of the Hourly Meteorological Observations taken at the Surveyor-General's Office, Calcutta, in the month of January 1870.

LATITUDE $22^{\circ} 35' 1''$ North, LONGITUDE $88^{\circ} 20' 34''$ East. Height of the Cistern of the Standard Barometer above the Sea Level, 18.11 feet.

MONTHLY RESULTS.

	Inches.
Mean height of the Barometer for the month	29.900
Max. height of the Barometer occurred at 10 A.M. on the 25th	30.127
Min. height of the Barometer occurred at 4 P.M. on the 13th	29.808
Extreme range of the Barometer during the month	0.319
Mean of the daily Max. Pressures	30.041
Ditto ditto Min. ditto	29.904
Mean daily range of the Barometer during the month	0.187

	°
Mean Dry Bulb Thermometer for the month	67.9
Max. Temperature occurred at 8 P.M. on the 19th	89.2
Min. Temperature occurred at 7 A.M. on the 10th	55.4
Extreme range of the Temperature during the month	27.8
Mean of the daily Max. Temperature	77.9
Ditto ditto Min. ditto	60.8
Mean daily range of the Temperature during the month	18.1

	Inches.
Mean Wet Bulb Thermometer for the month	60.6
Mean Dry Bulb Thermometer above Mean Wet Bulb Thermometer	7.3
Computed Mean Dew-point for the month	54.8
Mean Dry Bulb Thermometer above computed mean Dew-point	13.1

	Inches.
Mean Elastic force of Vapour for the month	0.440

	Troy grain.
Mean Weight of Vapour for the month	4.85
Additional Weight of Vapour required for complete saturation	2.66
Mean degree of humidity for the month, complete saturation being unity	0.65

	°
Mean Max. Solar Radiation Thermometer for the month...	116.4

	Inches.
Rained four days,—Max. fall of rain during 24 hours	0.48
Total amount of rain during the month	0.77
Total amount of rain indicated by the gauge attached to the Anemometer during the month	0.65

Prevailing direction of the Wind W N W, N N W & N N E.

GOPKENAOTH SEN,

In charge of the Observatory.

The 26th February 1870.

Results of the Meteorological Observations taken at the Surveyor-General's Office, Calcutta, from 22nd to 28th February 1870.

Notes.	Date	Mean reduced Barometer. Inches.	THERMOMETER. ° Fahr.			Max. Solar radiation, Thermometer.	Mean Dry-Bulb.	Mean Wet-Bulb.	Computed Mean Dew-point.	Mean Degree of Humidity.	WINDS.			Rain.	GENERAL Remarks.
			Highest Reading.	Lowest Reading.	Mean.						Precipitating direction.	Wind pressure.	Velocity.		
Feb.	22nd	29.988	84.5	69.8	73.1	131.4	73.6	64.1	57.1	0.60	SW & SSW	...	970	...	Clear.
	23rd	29.913	85.0	64.0	72.0	122.0	74.6	66.8	60.8	0.63	SSW	...	90.8	...	Slight foggy from 6 to 7 A.M.
	24th	29.987	87.5	68.0	73.0	119.3	75.7	65.9	57.8	0.58	SSW & WNW	...	89.1	...	Clear. Slightly foggy from 6 to 10 P.M.
	25th	29.955	87.0	68.5	72.5	125.3	76.2	65.4	57.8	0.55	WSW, SSW & S	...	88.9	...	Clear & cirrocumuli.
	26th	29.955	86.8	71.0	73.9	122.9	77.7	67.9	61.0	0.58	SW & S by E	...	81.6	...	Stratoni & cirrocumuli.
	27th	29.953	86.9	72.0	74.0	122.0	78.1	66.6	63.4	0.62	W by S & SSW	...	86.3	...	Stratoni, cirri & clear.
	28th	29.968	87.5	68.8	74.0	124.0	78.6	67.5	61.1	0.60	SSW & WNW	...	144.4	...	Clear. Slightly foggy at 8 & 9 P.M.

The mean Barometer, as likewise the Dry and Wet Bulb Thermometer means, are derived from the twenty-four hourly observations made during the day.

The Dew-point is computed with the Greenwich constants.—The figures in column ten represent the humidity of the air, the complete saturation of which being taken at unity.—The receiver of the lower rain gauge is 14 feet, and that of the Anemometer 70 feet 10 inches above the level of the ground.—The velocity of wind, as indicated by Robinson's Anemometer, is registered from noon to noon.

The extreme variation of temperature during the past seven days	...	25.4
The max. temperature during the past seven days	...	88.2
The max. temperature during the corresponding period of the past year	...	91.5
The mean humidity during the past seven days	...	0.59
The mean humidity during the corresponding period of the past year	...	0.64
		Inches.
The total fall of rain from 22nd to 28th ... { by lower rain gauge	...	Nil
ditto ditto, average of sixteen previous years	...	Nil
Ditto between the 1st January and the 28th ultimo	...	0.14
Ditto ditto, average of 16 years...	...	0.77
		1.34

The 1st March 1870.

GOPISENNAUTH SEN,
In charge of the Observatory.

Weekly Report of Rainfall compiled at the Meteorological Reporter's Office.

GOVT. WARRIOR	CORNISH	STATION	1	2	RAIN FROM 1st JANUARY 1870.		REMARKS
			Rain from 7th Feb. 1870.	Rain from 14th Feb. 1870.	Rain.	Up to date.	
POORES	---	---	Nil	Not received	Nil	18th Feb. 1870.	
False Point	---	---	---	ditto	ditto	18th Feb. 1870.	
Cuttack { Telegraph Office	Jail	---	Nil	Nil	1'00	20th Feb. 1870.	
Sambulpore	---	---	ditto	ditto	1'06	ditto.	
Balasore	---	---	ditto	Not received	8'30	13th Feb. 1870.	
Midnapore	---	---	---	Nil	1'18	20th Feb. 1870.	
Barddih	---	---	---	---	---	---	
Chittagong	---	---	---	---	---	---	
Shoree	---	---	Not received	Not received	---	---	
Douglas	---	---	Nil	Nil	0'40	20th Feb. 1870.	
Burree	---	---	Not received	Not received	0'45	6th Feb. 1870.	
Hazareesburgh	---	---	0'10	ditto	0'38	15th Feb. 1870.	Not received 3rd to 18th Jan.
Saugor Island	---	---	Nil	Nil	---	---	
Conna	---	---	Not received	Not received	---	---	
Calcutta	---	---	Nil	Nil	0'77	23rd Jan. 1870.	
Howrah	---	---	ditto	ditto	1'48	20th Feb. 1870.	
Mooghly { Jail	College	---	ditto	ditto	1'00	ditto	
Jessore	---	---	Nil	Nil	0'30	20th Feb. 1870.	
Barhampore	---	---	ditto	Not received	---	13th Feb. 1870.	
Furkendapore	---	---	Not received	Nil	---	20th Feb. 1870.	Not received 7th to 13th Feb.
Burrisaul	---	---	---	Not received	---	18th Feb. 1870.	
Kishnugur	---	---	---	---	0'18	ditto.	Not received 1st to 16th Jan.
Ranaghat	---	---	---	---	---	ditto.	Not received 1st to 5th Jan.
Bongong	---	---	---	---	0'30	ditto.	Not received 1st to 9th Jan.
Meharpore	---	---	---	---	---	ditto	Not received 1st Jan. to 6th Feb.
Chodangah	---	---	ditto	ditto	ditto	ditto	Not received 1st Jan. to 6th Feb.
Bhaogulpoore	---	---	Nil	Nil	0'50	20th Feb. 1870	Not received 14th to 20th Jan.
Monghyr	---	---	ditto	ditto	0'16	ditto.	
Patna	---	---	0'03	ditto	0'04	ditto.	
Arsar	---	---	Nil	ditto	Nil	ditto.	
Buxar	---	---	0'15	ditto	0'16	ditto.	
Chunprah	---	---	Nil	ditto	Nil	ditto.	
Chunparan	---	---	ditto	ditto	ditto	ditto.	
Decores	---	---	ditto	Not received	ditto	13th Feb. 1870.	Not received 3rd to 18th Jan.
Ramnagar Deonihal	---	---	Nil	Nil	---	20th Feb. 1870.	
Purnia	---	---	ditto	ditto	---	ditto	
Maldah	---	---	ditto	ditto	---	ditto	
Bograh	---	---	ditto	ditto	---	ditto	
Dinajpore	---	---	1'0	ditto	1'20	ditto	
Hungpore	---	---	Nil	ditto	Nil	ditto	
Julipgore	---	---	ditto	ditto	---	ditto	
Huzur	---	---	Not received	Not received	---	---	Not received 1st to 16th Jan.
Darjeeling	---	---	0'68	Nil	1'21	20th Feb. 1870.	
Gowalparah	---	---	0'18	Not received	0'15	18th Feb. 1870.	
Gowhattry	---	---	Nil	ditto	0'30	ditto.	
Shillong	---	---	ditto	ditto	Nil	ditto.	
Nowrang	---	---	Not received	ditto	---	13th Feb. 1870.	
Tespara	---	---	0'40	ditto	1'16	---	
Obobiebagun	---	---	0'07	ditto	1'35	---	
Sebasugur	---	---	0'10	ditto	1'30	---	
Debsugur	---	---	Not received	ditto	4'80	6th Feb. 1870	Not received 1st to 9th Jan.
Samrongadong	---	---	Nil	ditto	0'25	13th Feb. 1870.	Not received 1st and 2nd Jan.
Cherra Poonjee	---	---	ditto	ditto	---	---	
Dacca	---	---	Nil	Not received	Nil	18th Feb. 1870	Not received 10th to 15th Jan.
Mymensing	---	---	ditto	ditto	0'06	ditto.	
Sylhet	---	---	ditto	ditto	0'60	ditto.	
Cachar	---	---	ditto	ditto	0'00	ditto.	
Aonkhall Hylakandy	---	---	ditto	ditto	0'83	ditto.	
Tipperah	---	---	---	Nil	0'10	20th Feb. 1870.	
Nathally	---	---	ditto	Not received	Nil	18th Feb. 1870.	
Chittagong { Telegraph Office	Jail	---	ditto	Nil	---	20th Feb. 1870.	
Rangamata Hill	---	---	ditto	Not received	---	13th Feb. 1870.	
Akyab	---	---	Nil	---	---	ditto	
					Nil	20th Feb. 1870.	

Meteorological Telegraphic Report for the period 19th to 25th February 1870.

STATION.	Date.	Hr.	Barometer readings inches.	Barometer readings in millimetres.	THERMOMETER.	Humidity. = 80	WIND.		Rain.	Weather initials.	CLOUDS.
							Dry.	Wet.			
Calcutta.	Feb.				0	0					
	19th	10	30.070	80.089	76.2	70.8	78	W	...	ligh.	
		16	29.935	89.053	85.6	68.6	80	W	...	Scattered	
	20th	10	30.090	80.115	70.4	58.2	44	WNW	...	Scattered	
		16	29.938	89.051	61.1	63.4	32	WNW	...	Scattered	
	21st	10	30.071	80.050	74.6	61.7	42	W by S	...	Scattered	
		16	29.924	89.052	61.6	62.9	28	W by S	...	Scattered	
	22nd	10	30.042	80.081	74.6	67.1	83	WSW	...	Scattered	
		16	29.913	89.031	64.5	65.6	33	WSW	...	Scattered	
	23rd	10	30.111	80.129	70.2	65.7	08	WSW	...	Scattered	
		16	29.841	89.069	84.6	88.0	87	S SW	...	Scattered	
	24th	10	30.043	80.081	77.2	65.7	49	N W	...	Scattered	
		16	29.918	89.036	67.4	67.8	20	N W	...	Scattered	
	25th	10	30.086	80.086	70.7	67.2	50	WNW	...	Scattered	
		16	29.914	89.032	66.9	67.2	82	S SW	...	Scattered	
Satellite.											
	19th	10	30.073	80.078	79	74	77	W	8	Scattered	
		16	29.945	89.044	89	75	70	SW	1.1	Scattered	
	20th	10	30.105	80.111	75	61	40	NNNE	1.1	Scattered	
		16	29.939	89.028	69	64	39	NNNE	1.1	Scattered	
	21st	10	30.090	80.088	78	66	40	E W	1.1	Scattered	
		16	29.929	89.065	81	68	48	W E W	1.1	Scattered	
	22nd	10	30.076	80.081	78	72	77	WW	1.1	Scattered	
		16	29.948	89.054	81	73	62	SW	1.1	Scattered	
	23rd	10	30.119	80.125	76	74	81	NW	1.1	Scattered	
		16	29.964	89.070	89	73	60	W	1.1	Scattered	
	24th	10	30.076	80.081	75	68	46	N	1.1	Scattered	
		16	29.950	89.062	86	72	56	WSW	1.1	Scattered	
	25th	10	30.080	80.086	78	67	58	NE	1.1	Scattered	
		16	29.937	89.043	81	72	62	S	1.1	Scattered	
Satellite Island.											
	19th	10	30.072	80.088	83	79	59	WSW	4.6*	Scattered	
		16	29.863	89.074	89	70	52	W	10.2*	Scattered	
	20th	10	29.937	80.049	79	70	61	NNW	8.1*	Scattered	
		16	29.918	89.024	68	66	66	WSW	9.4*	Scattered	
	21st	10	30.034	80.046	78	68	49	NNW	6.3*	Scattered	
		16	29.926	89.038	81	70	55	WSWW	9.6*	Scattered	
	22nd	10	29.931	80.018	60	67	47	NNW	4.6*	Scattered	
		16	29.858	89.048	81	68	61	NNW	7.8*	Scattered	
	23rd	10	29.967	80.070	77	66	60	NNW	4.3*	Scattered	
		16	29.940	89.051	84	73	53	NNW	7.0*	Scattered	
	24th	10	29.944	80.058	78	70	61	NNW	3.8*	Scattered	
		16	29.816	89.026	89	68	28	N W E	7.5*	Scattered	
	25th	10	29.905	80.065	74	67	67	NNN E	3.9*	Scattered	
		16	29.841	89.038	81	69	61	NNN E	4.0*	Scattered	
Cuttack.											
	18th	10	30.006	80.035	68	73	60	E	.5*	Scattered	
		16	29.895	89.025	82	71	62	E by N	.7*	Scattered	
	19th	10	30.008	80.029	82	70	59	N E	.9*	Scattered	
		16	29.954	89.084	89	69	63	N N E	.9*	Scattered	
	20th	10	30.060	80.080	81	73	52	N N R	10*	Scattered	
		16	29.831	89.031	83	71	59	NNR	4*	Scattered	
	21st	10	30.059	80.088	81	71	59	NNN E	.9*	Scattered	
		16	29.951	89.031	83	71	52	NNN E	.4*	Scattered	
	22nd	10	30.051	80.081	83	71	52	NNN E	11*	Scattered	
		16	29.918	89.048	82	71	55	NNN E	.9*	Scattered	
	23rd	10	30.036	80.046	83	68	42	NNN E	15*	Scattered	
		16	29.900	89.030	82	70	52	NNN E	14*	Scattered	
	24th	10	29.986	80.016	80	70	48	NNN E	10*	Scattered	
		16	29.855	89.035	88	72	56	NNN E	10*	Scattered	
	25th	10	29.937	89.007	81	72	62	NNN E	16*	Scattered	
		16	29.811	89.041	86	74	57	NNN E	18*	Scattered	
Murree.											
	19th	10	30.034	80.117	78	70	73	SW	6.8*	Scattered	
		16	29.997	89.079	86	65	29	SW	7.1*	Scattered	
	20th	10	30.051	80.134	78	59	34	NEW	9.1*	Scattered	
		16	29.978	89.041	83	68	29	NNW	12.8*	Scattered	
	21st	10	30.039	80.123	75	69	44	NWW	8.1*	Scattered	
		16	29.905	89.038	63	72	59	NWW	7.9*	Scattered	
	22nd	10	30.018	80.103	75	60	36	NNW	6.9*	Scattered	
		16	29.878	89.050	68	68	23	NNW	7.0*	Scattered	
	23rd	10	30.037	80.141	78	69	37	NNE	5.9*	Scattered	
		16	29.908	89.046	88	68	37	NNE	10.7*	Scattered	
	24th	10	30.019	80.118	76	66	38	NNE	6.0*	Scattered	
		16	29.988	89.070	81	64	28	NNE	8.6*	Scattered	
	25th	10	30.019	80.103	76	66	59	NWE	8.2*	Scattered	
		16	29.868	89.035	65	64	26	NWE	16.8*	Scattered	
Armenia.											
	19th	10	30.046	80.061	71	65	70	NN E	1	Scattered	
		16	29.938	89.059	81	68	48	NN E	1	Scattered	
	20th	10	30.029	80.012	79	67	71	NN E	1	Scattered	
		16	29.987	89.002	86	77	68	NN E	1	Scattered	
	21st	10	30.037	80.063	74	60	39	NN E	1	Scattered	
		16	29.914	89.030	82	66	39	NN E	1	Scattered	
	22nd	10	30.076	80.091	71	61	50	NN E	1	Scattered	
		16	29.968	89.053	81	67	44	NN E	1	Scattered	
	23rd	10	30.039	80.054	73	66	32	NN E	1	Scattered	
		16	29.909	89.024	77	69	44	NN E	1	Scattered	
	24th	10	30.074	80.060	78	67	69	NN W	1	Scattered	
		16	29.901	89.048	80	74	74	Calm	1	Scattered	
	25th	10	30.054	80.070	76	68	68	NN E	1	Scattered	
		16	29.919	89.033	81	70	55	NN E	1	Scattered	

Velocity of wind in miles per hour.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY MAIN LINE.

Approximate Return of Traffic for Week ended 19th February 1870 on 1,131 miles open.

	COACHING TRAFFIC.			MERCHANTILE AND MINERAL TRAFFIC.			Total Traffic Receipts.
	Number of Passengers.	Coaching Receipts.		Weight carried.	Receipts.		
Total Traffic for the week ...	1,18,730	Rs. As. P. 2,04,273 10 4	E. s. d. 10,735 10 4	Mds. Brs. 6,85,517 10	Rs. As. P. 23,84,844 1 0	E. s. d. 24,377 7 5	Rs. As. d. 24,002 10 4
Or per mile of Railway	180 9 10		10 11 2		340 6 4	51 8 10	47 15
For previous 6 weeks of half-year ...	6,83,027	19,16,666 4 1	1,30,511 1 6	20,84,618 20	10,21,020 0 2	2,03,593 10 0	2,34,104 12 3
Total for 6 weeks ...	7,78,766	15,10,944 14 6	1,30,206 19 5	49,53,284 30	96,05,884 7 9	3,19,270 18 8	3,76,107 10 7
COMPARISON.							
Total for corresponding week of previous year	97,735	1,58,251 18 9	14,506 8 3	7,58,006 30	4,69,360 2 4	48,023 0 2	67,899 5 6
Per mile of Railway corresponding week of previous year		140 12 9	12 18 1		614 1 0	27 19 3	59 17 6
Total to corresponding date of previous year	6,83,483	10,94,586 13 6	1,00,390 17 5	40,74,705 0	98,17,287 4 0	3,34,415 8 3	3,54,654 7 8

* Rs. 0.027 6 9 added on account of freight of locomotive coal carried on Jubbulpore line.

EAST INDIAN RAILWAY JUBBULPORE LINE.

Approximate Return of Traffic for Week ended 19th February 1870 on 223 miles open.

	Rs. As. P.	E. s. d.	Mds. Brs.	Rs. As. P.	E. s. d.	D. s. d.
Total Traffic for the week ...	8,145	18,837 14 1	1,236 8 9	58,879 30	14,979 6 8	1,900 15 5
Or per mile of Railway	257	61 8 6	8 18 1		85 2 2	0 15 0
For previous 5 weeks of half-year ...	36,197	1,16,936 4 10	10,710 8 3	2,94,060 10	55,000 18 0	8,325 0 1
Total for 5 weeks ...	48,332	1,30,874 8 11	11,906 8 0	8,80,913 0	72,170 7 9	6,015 12 6
COMPARISON.						
Total for corresponding week of previous year	8,202	18,727 14 0	1,461 14 5	58,888 10	15,630 11 5	1,416 7 10
Per mile of Railway corresponding week of previous year		70 8 5	6 8 4		69 2 1	6 8 10
Total to corresponding date of previous year	36,193	84,805 0 0	77,769 19 8	2,80,836 20	99,660 19 4	9,139 8 3

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for Week ended 12th February 1870 on 118½ miles open.

	Rs. As. P.	E. s. d.	Mds. Brs.	Rs. As. P.	E. s. d.	E. s. d.
Total Traffic for the week ...	95,757	14,748 7 0	1,281 7 10	1,23,161 0	19,960 5 3	1,378 17 3
Or per mile of Railway	257	180 2 10	11 18 5	3,087 16	101 8 10	18 15 7
For previous 6 weeks of half-year ...	1,44,900	1,03,913 0 6	9,424 8 8	4,90,700 0	73,655 12 6	8,750 18 9
Total for 7 weeks ...	1,72,646	1,17,564 7 6	10,778 16 6	8,18,661 0	91,904 1 9	8,466 11 0
COMPARISON.						
Total for corresponding week of previous year	93,556	17,003 13 11	1,566 8 7	97,985 61	10,712 6 11	1,440 8 0
Per mile of Railway corresponding week of previous year	208	158 5 0	13 18 7	776 20	138 12 0	18 14 4
Total to corresponding date of previous year	1,59,718	1,05,627 0 10	9,562 8 7	8,13,468 141	1,13,000 0 91	10,804 7 10

CALCUTTA AND SOUTH-EASTERN STATE RAILWAY.

Approximate Return of Traffic for Week ended 12th February 1870 on 28 miles open.

	Rs. As. P.	E. s. d.	Mds. Brs.	Rs. As. P.	E. s. d.	E. s. d.
Total Traffic for the week ...	5,296	800 8 3	90 14 1	20,648 10	720 14 9	69 13 8
Or per mile of Railway	159	15 8 6	2 9 10	744 0	20 10 4	3 7 7
For previous 6 weeks of half-year ...	30,629	5,278 10 6	653 17 6	63,359 6	1,092 19 0	101 15 8
Total for 7 weeks ...	35,137	6,203 9 9	574 11 7	80,184 14	2,810 9 0	254 9 4
COMPARISON.						
Total for corresponding week of previous year	4,765	1,141 2 81	104 19 0	5,803 15	240 8 9	22 0 9
Per mile of Railway corresponding week of previous year	170	40 12 1	3 18 0	307 0	9 8 5	0 15 0
Total to corresponding date of previous year	34,893	7,191 15 61	620 7 3	71,379 1	3,624 8 0	319 15 3

No. 10

in 1870



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, MARCH 9, 1870.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT, separately, on payment of six Rupees per annum if delivered in Calcutta, or twelve Rupees if sent by Post.

Proceedings of the Council of the Lieutenant-Governor of Bengal for the purpose of making Laws and Regulations.

The council met in the council chamber on Saturday, the 26th February 1870.

Present:

HIS HONOR THE LIEUTENANT-GOVERNOR OF BENGAL, Presiding.

T. H. COWIE, Esq., Advocate-General,
THE HON'BLE ASHLEY EDEN,
A. MONKEY, Esq., C.B.,
A. R. THOMPSON, Esq.,
V. H. SCHALCH, Esq.,

H. H. SUTHERLAND, Esq.,
RAJAH SATYANUND GHOSAL,
BABOO CHUNDER MOHUN CHATTERJEE,
AND
BABOO JOTEENDRO MOHUN TAGORE.

VILLAGE CHOWKEEDARS.

MR. RIVERS THOMPSON moved that the Bill to provide for the appointment, dismissal, and maintenance of village chowkeedars be read in council. He said that in endeavoring, on the last occasion when he addressed the council, to explain the necessity for legislation upon this subject, he engaged after leave was given for the introduction of the Bill to explain to the council the principles upon which legislative action should proceed. For a right and perfect comprehension of this part of the subject it would, he thought, be of advantage to state in the outset the attempts which have been made to pass a law for the reform of the village police in Bengal, and he would crave the indulgence of the council for a brief recapitulation of the proposals which have been made at different times with a view to legislation.

He stated on the last occasion that a Bill for the better regulation and management of the rural police in Bengal had been introduced into the legislative council in the year 1859. The Bill was introduced by Mr. Henry Ricketts, the member who represented the interests of the Bengal provinces in the council as then constituted, and whose knowledge of the country made him eminently fit to have charge of such a measure. In bringing forward his Bill he showed very clearly what subsequent investigation and experience had only more fully confirmed, that the whole system was one in much confusion and irregularity, which embraced almost every point connected with the appointment, maintenance, or organization of the police force. Thus in some places chowkeedars were appointed by the zamindar, some by the zamindar's gomestah, some by the headmen of the village, some by the villagers themselves. Again, in some places the remuneration of the chowkeedars was by land allotments, in others by salaries in cash, by allowances of grain, by presents of cloth; and while in a few cases the remuneration might be sufficient, in the greater part of the country the rates of pay prevailing were entirely inadequate for the support of the village policeman.

The enquiries at that time and in previous years had brought to light the fact that in all the Bengal districts there were in 1859 about 1,64,777 chowkeedars in 1,59,308 villages, and that the aggregate sum paid in different forms to this body of police was estimated at no less a sum than 59½ lakhs of rupees. Mr. Ricketts' Bill proceeded on the principle that the nomination of

the village watchman should rest with those who had hitherto nominated them; that there should be no change in the nature of the remuneration which the chowkeedar had been in the habit of receiving, though endeavors should be made to arrive as far as possible at a system of money payments by salary; that panchayets should be formed wherever practicable for the assessment and collection of the cess necessary for the payment of the village watchmen; and for the appointment and removal of the chowkeedar, subject to the magistrate's control. The Bill also provided that it should be competent to the magistrate to dispense in places with the services of the chowkeedar, and to utilize the cess of the village to which such chowkeedar belonged to increase the pay of chowkeedars in other places. It seemed to be the opinion of the hon'ble member that a great deal of the large sum that was collected throughout the country was very uselessly thrown away to no purpose, and that with two-thirds of the sum thus collected very much more practical good might be effected, if power was given under his Bill to appropriate the moneys for the furtherance of the objects of an efficient rural police in such places as might be deemed proper, irrespective of the places and towns from which the cess was realized.

It would be unnecessary to discuss now the merits or demerits of such a principle of action, beyond stating that it forms no part of the present measure. On the contrary, the opposite principle has been distinctly recognised, that whereas it is just and expedient that the people at large should pay for their own protection, the fund realized should be directly limited in its application to the place where it is raised. However, as regards the Bill of 1859, he (Mr. Thompson) might state that beyond the enunciation of the principles on which he intended to proceed, Mr. Ricketts went no further. The Bill after being read in council appears to have been dropped, under circumstances which had been given in the statement of objects and reasons attached to the present Bill.

He (Mr. Thompson) had not been able to trace that anything further was done in the matter till the year 1863, when under the orders of His Honor's predecessor a report was called for on the subject of the re-organization of the village police in Bengal from Mr. C. P. Hobhouse, then civil and sessions judge of the Midnapore District, now Sir Charles Hobhouse, one of the learned puisne judges of the high court of judicature of Bengal. In October of that year, in obedience to the above orders, Mr. Hobhouse submitted a careful report on the subject with the draft of a Bill for the reform of the village police system. His opinion, fully elaborated in the report upon which Mr. Hobhouse prepared his measure, was that by both law and usage a clear obligation rested upon zemindars and village communities to maintain in their estates and villages a village police; that it should be declared by law that in supersession of all previous practice the payment of such village police in future should be in money; that the funds for the payment were to be supplied by landed proprietors or heads of village communities; and that all further management and employment of this force,—its appointment, organization, dismissal, and payment—were to be entirely independent of the zemindars or village communities, and should be vested solely in the district superintendent of police, subject to the general control of the district magistrate.

The publication of this report and of the draft Bill founded upon it elicited from many quarters opinions very adverse to its main features. Among others he might mention that the hon'ble member opposite as commissioner of the Bhawulpore division, and the hon'ble member to the right as secretary to the British Indian Association, were prominent among those who resisted its adoption, on the ground that it would excite great discontent among the zemindars and arouse violent opposition as a change in the direction of farther centralization, which, while imposing upon the land and upon village communities the burden of providing for the means of paying the village police force, deprived each of his interest in the village police, which from time immemorial had been recognised and acted upon.

Considering the wide diversity of opinion which prevailed generally as regards both the principles and details of Sir Charles Hobhouse's Bill, and the necessity which further consideration established of more detailed enquiry as to the respective rights of the Government, the landholders, and occupants of villages in connection with police chakaran lands, the Government was induced in 1866 to appoint a special officer to investigate the subject *de novo*, and Mr. D. J. McNeile was deputed to undertake the duty. His enquiries extended to almost every district under the jurisdiction of the Lieutenant-Governor, and the results of his personal investigation and research are embodied in the volume which he (Mr. Thompson) had now before him. With the historical portion of Mr. McNeile's report the council had no concern at present. He (Mr. Thompson) would briefly state the proposition which Mr. McNeile submitted, based on the opinion of the utter inefficiency of the present system of the rural police either for the detection or prevention of crime, and on the impossibility of removing the inherent radical defects of the system by any superficial treatment.

His proposal was the entire abolition of the present village watch as an establishment, and the appointment in its place of a body of policemen to be selected and appointed by the executive authorities, and to have jurisdiction within circles within each district of a magistrate; the entire force being in direct subordination to the regular police. As described by Mr. McNeile himself, the security and the protection of the country were to be attained by garrisoning the country with an organized subordinate constabulary, all the members being residents of the circles of villages within which they were employed.

Of course the proposal met with strong opposition. It was objected, ■ Mr. McNeill himself seems to have anticipated, that his measure virtually provided "for the enrolment of an army of plundering ruffians to be supported in all their extortions and cruelties by the authority of Government." It was objected, and with very strong reason, that the change which he contemplated was a revolution and not a reform; that the supersession of the institution of a village police, by what to all intents and purposes was an inferior grade of constabulary, deprived the executive of the services of a class who combined local knowledge with a kind of influence among the village communities, and that the absence of such a link between the regular police and the people would always work unsatisfactorily; that it was contrary to the wishes of the natives of the country and subversive of the principles on which the Village watch had always been recognized ■ a municipal institution. It was under such circumstances of a general hostility to the principles which had been previously submitted for the reorganization of the rural police, that during last year a committee was appointed to reconsider the whole question with instructions to frame a draft Bill for the reform of the village police on the principle of affixing the municipal character of the rural police and providing the simplest possible means for insuring the regular and prompt payment of their wages.

He had the honor to be associated on that committee with two able members of the civil service and an hon'ble member of council now absent, and the present Bill was the result of their investigations on the subject. It was proposed under its provisions that the village police of the country should be brought under one uniform system of a force remunerated by money payment, and that this force should be distinct from the regular thanadar police.

The Bill proceeds upon the recognition of the fact that the village chowkeedars ■ purely a village servant, employed for the protection of the lives and property of the villagers, and looking to the village community for the regular payment of the remuneration to which he is entitled.

It was proposed that a panchayet should be appointed in every village where it is practicable, and that such panchayet shall, under the general control of the magistrate of the district, appoint and maintain the village watch, supervise its work and secure its regular payment, and that each member of the panchayet shall be responsible for the due report of all crime to the police.

The duties of chowkeedars are definitely prescribed and are chiefly of a character which connects them as a subsidiary force to the regular police in supplying, what is chiefly wanted, prompt information of all criminal attempts or occurrences which their local knowledge and position will enable them to give.

Thus far ■ regards those chowkeedars or village watchmen who are in receipt of a monthly salary. But as he (Mr. Thompson) had occasion before to explain, there are many districts in Bengal, particularly in Western Bengal, where the system of payment by assignments of land prevails. In such places it will be clear that the enforcement of money-payments in lieu of allotments of land will effect a complete revolution of the existing system. Personally he had wished that this part of the measure had been entirely omitted. On a former occasion he adverted to this view, and suggested that as the question of chowkeedars paid by allotments of land was a larger and very much more complicated question, it would be better, for the present, simply to provide for the re-organization of the village policeman who is the recipient of a cash salary, and subsequently to consider the more difficult questions connected with chakaran lands. At the same time he was free to admit that if by one comprehensive measure the council could settle the difficulties connected with both parts of the village watch system, a large measure of reform would be secured.

He would take the opportunity of pointing out some of the difficulties which would be met in dealing with the subject of chakaran lands, and which have not been entirely solved by the provisions of the Bill before the council. Before the panchayet system can be introduced in those places where the police is paid by allotments of land, we have first to undo existing arrangements. We have practically to say to the zemindar:—"The chowkeedar in this village is paid by an assignment of land appertaining to your estate: the produce of this land was placed to the credit of the zemindar when the rental on your estate was fixed in perpetuity. The Bill proposes now to take the land away from the chowkeedar, to resume it, and make it over to the zemindar, and to assign to him two-thirds of the rental for the surrender of any rights which he may have enjoyed in the services of that chowkeedar, while the remaining one-third will be taken to form or help to form a watch fund as a contribution towards the payment of the chowkeedar." In carrying out this proposal difficulties will arise, for the chowkeedar may have been for a very long time the occupant of the land proposed to be taken away from him, and he might object to a course which by a very harsh and arbitrary measure deprives him of his rights, takes away the land to the possession of which he has for a very long time been entitled, and restores him to the position of the simple recipient of a monthly police salary.

Again, the village communities may object that whereas the practice has always been to remunerate the chowkeedar by an assignment of land, it will be unjust to force them to pay wages. It will also be seen that in some places a commission ■ proposed to ascertain and regulate where chakaran lands have been alienated from their proper uses.

All these difficulties suggest themselves when the complicated question of disposing of the chakeran lands assigned to village chowkeedars for their services, comes up for consideration. But the Bill has been framed in accordance with the views of the committee, though in submitting it as the committee wished, he (Mr. Thompson) reserved to himself the right of objecting to that portion of the Bill which dealt with the question of chakeran lands. The select committee to whom the Bill will be referred can determine whether these larger provisions should be considered in connection with the present measure.

One word as to the objections raised to the system of appointing panchayets for the assessment and collection of the rate. The proposition is essentially of a novel nature and must be tentatively enforced, and therefore power is reserved to the Lieutenant-Governor to extend the system to such places as he may think fit. Objections have been taken in many places to the establishment of such an agency, and one commissioner, who combined experience with great intelligence on all such questions, said that he hoped these provisions would not be enforced in his division, as it would take ten years to establish the system of panchayets in the districts under him. He (Mr. Thompson) would simply reply in answer to that, that while he doubted altogether the estimate formed as to the system requiring ten years for its introduction in any division, still even if it required ten years, very much greater advantage would be gained by it than by the present system under which no means at all existed of communication between the magistrate and village communities. All that directly tended to facilitate means of communication between the magistrate and the people would be of assistance to executive administration. Demands are constantly made on the Government with which it is impossible to comply in the absence of any kind of local agency, and the object partly of this measure is to provide an agency, by means of the head and principal men of the village, who can assist the magistrate by all kinds of local information, and thus indirectly secure the better administration of the country in improving the position of the village chowkeedar.

With these remarks Mr. Thompson moved that the Bill be read in council.

The ADVOCATE-GENERAL said that perhaps he might be allowed to say one word by the suspension of the rule in accordance with which the council does not discuss the principle of a Bill on the motion to obtain leave for its introduction. With reference to what had fallen from the hon'ble member with regard to the question as to chakeran lands being left for the consideration of the select committee, he (the Advocate-General) wished to reserve to himself the power of bringing forward that question on the motion that the Bill be read in council. It was a question of general principle that ought to some extent to be discussed by the Council before the Bill was referred to a select committee.

The motion was agreed to.

MR. RIVERS THOMPSON moved that the Bill be referred to a select committee, consisting of Mr. Schalch, Baboo Isler Chunder Ghosal, Mr. Robinson, Baboo Joteendro Mohun Tagore, and the mover.

The ADVOCATE-GENERAL said he was under the impression that the motion made to-day was for leave to introduce, and not that the Bill should be read in council. He might, however, now say that from such information as he had been able to gather from the hon'ble mover of the Bill, and also from the very lucid statement just made by him, that it should be an instruction to the select committee to consider the propriety or otherwise of the present measure dealing with the question of assigned lands. Considering that it really did involve a question of general principle, he (the Advocate-General) would prefer that it should be a special instruction from the council to the select committee to consider whether or not the measure should deal with the alteration of the system as regards the large number of cases in which under the present system the services of the chowkeedar had been and are remunerated by assignments of land. He thought that the select committee should deal with the details of the Bill with some general instructions of that kind.

The PRESIDENT said, with reference to the additional question which the learned Advocate-General wished to have put to the council, that there was no objection to its being put if the Advocate-General desired it; but the question seemed to him (the President) to be hardly necessary, and he was not sure that it was quite regular: the mention of the point which had been raised by the hon'ble mover of the Bill and the learned Advocate-General was of itself quite sufficient to ensure the attention of the select committee being given to the subject.

The ADVOCATE-GENERAL having acquiesced in the view stated by the President—

The motion was agreed to.

COURT OF WARDS.

MR. MONEY moved that the Report of the Select Committee on the Bill to consolidate and amend the law relating to the court of wards within the provinces under the control of the Lieutenant-Governor of Bengal, be further considered in order to the settlement of the clauses of the Bill.

In the postponed Sections 78 and 79 the blanks were filled up with the words "1st day of June 1870," as the date for the commencement of the operation of the Act.

Section 80 was agreed to.

Schedule A., providing the form of obligation to be executed by a manager, having been read—

THE ADVOCATE-GENERAL said that he had mentioned on the last occasion when this Bill was under consideration that he would propose some amendments in the schedules. The forms appeared to be taken word for word from those contained in the Regulation of 1793, but it seemed to him that they were susceptible of a good deal of amendment. As it stood, there would be some difficulty in determining the precise character of the instrument with reference to the value of the stamp to be impressed. The form in which he proposed to frame the schedules would make it an agreement for which an uniform stamp of eight annas would be required: as it stood now it was open to the objection that the agreement was entered into without any knowledge of the exact amount of the manager's liability. It was also proposed that instead of referring to the regulations passed by the Lieutenant-Governor, the engagement should refer to the provisions contained in Part VII of the Act. Practically there would be no difficulty in the way of the manager knowing what his duties are, as on appointment he would receive a copy of the sections of the Act which related to his duties. There was another alteration which it would be desirable to make if only to make the form correspond with the system universally adopted as regards all engagements entered into either with the local Government or the Supreme Government in reference to the consequences of a breach of trust. As the form stood the result would be that a person committing a breach or abuse of trust would be liable to make good treble the amount of embezzlement or injury proved against him. It would therefore be necessary in every case to prove what was the particular amount of injury suffered, which it might not always be possible to do; and secondly, there seemed no reason why managers and guardians should be put in a different position, as regards the payment of treble the amount of the injury suffered, from any other person holding a fiduciary position as regards the Government. He (the Advocate-General) would therefore propose, instead, a clause for the payment of liquidated damages. Schedule B. regarding guardians was, *mutatis mutandis*, the same as Schedule A.

He moved that the following schedules be substituted for Schedules A. and B. as they stood in the Bill:—

"SCHEDULE A.—(Referred to in Section XXVI.)

FORM OF AGREEMENT TO BE EXECUTED BY A MANAGER.

I, A. B. having voluntarily taken on myself the management of the estate of C., disqualified proprietor of D., do hereby engage with the collector of E., that I will manage the said estate diligently and faithfully for the said proprietor, and will use every means in my power to improve the same for his [her] benefit, and will act in every respect for his [her] interest in like manner as if the estate were my own. I also engage with the said collector to observe in all respects the provisions regarding managers contained in Part VII of Act of 1870 of the Council of the Lieutenant-Governor of Bengal, and that I will derive no personal advantage from the management beyond the remuneration granted to me as manager. In the event of any breach of trust, neglect, or omission as manager being proved against me, I will pay to the said collector Rs. as liquidated damages.

SCHEDULE B.—(Referred to in Section LVI.)

FORM OF AGREEMENT TO BE EXECUTED BY A GUARDIAN.

I, A. B. having voluntarily taken upon myself the guardianship of C., disqualified proprietor of D., do hereby agree with the collector of E., that I will execute the trust committed to me diligently and faithfully, and according to the provisions regarding guardians contained in Part VII of Act of 1870 of the Council of the Lieutenant-Governor of Bengal, and that I will derive no advantage directly or indirectly from the ward's allowance beyond the remuneration granted me as guardian. In the event of any breach of trust, neglect, or omission being proved against me, I will pay to the said collector Rs. as liquidated damages."

The motions were severally put and agreed to.

Amendments rendered necessary by the introduction of the new schedules were then made in Sections 58 and 53.

On the motion of BABOO JOTEBENDRO MOHUN TAGORE a further amendment was made in Section 58 by the addition of a proviso to the effect that no security shall be required from a testamentary guardian.

On the motion of THE ADVOCATE-GENERAL Section 55 was again amended with the object of providing clearly that no guardian shall be appointed nor continued for a female ward if she has an adult husband.

Verbal amendments were made in Sections 63 and 64.

The postponed Section 1 and the preamble and title were agreed to.

The council was adjourned to Saturday, the 5th March.

By order of the president the council was further adjourned to Saturday, the 12th idem.

Annual Report of Joint-Stock Companies for 1869.

From H. EVERLEY, Esq., Registrar-General, Lower Provinces, to the Secretary to the Government of Bengal, General Department,—(No. 337, dated Fort William, the 22nd January 1870.)

REFERRING to Government order No. 352, dated the 15th January 1866, I have the honor to submit herewith the annual report of the registrar of joint-stock companies for 1869, with a comparative statement which I have had drawn up showing the history of joint-stock

enterprise in this presidency since 1857. I would suggest that the statements should, as usual, be published in the supplement to the *Calcutta Gazette*.

2. Although the amount of capital invested in joint-stock companies during the year is greater than it has been in any year since 1865, it will nevertheless be observed that only three new companies have been brought on the register against eight which have been struck off. The number of companies wound up, however, is less than it has been for several years. It would seem that nearly six millions sterling are invested in joint-stock companies which are borne on the Calcutta register.

Statement of Joint-Stock Companies registered from the year 1857 to the year 1868.

STATEMENT OF JOINT-STOCK COMPANIES REGISTERED IN 1857.

Names of Companies.	Date on which the Company was registered.	Amount of nominal capital in Rs.
1. Auction Company, Limited (Calcutta)	27th July 1857	10,00,000
2. Copper Company, Limited (East India)	9th September 1857	0,00,000
Total	.....	10,00,000

STATEMENT OF JOINT-STOCK COMPANIES REGISTERED IN 1858.

		Rs.
1. Bengal Coal Company, Limited	26th July 1858	10,00,000
2. Bengal United Service Medical Hall Association, Limited	8th December 1858	10,000
3. Calcutta Printing and Publishing Company, Limited	4th February ..	50,000
4. Calcutta Steam Tug Association, Limited	7th September ..	9,00,000
5. Hope Town Tea Association, Limited	8th January ..	1,25,000
6. Hydraulic Steam Press Company, Limited	21st April ..	1,00,000
7. India General Steam Navigation Company, Limited	26th September ..	20,00,000
8. Ice Company, Limited (Rangoon)	ditto ..	20,000
9. Ithera Yarn Mills Company, Limited	22nd December ..	4,00,000
Total	.....	62,05,000

STATEMENT OF JOINT-STOCK COMPANIES REGISTERED IN 1859.

		Rs.
1. Allahabad Printing Association, Limited	24th October 1859	25,000
2. Burdwan Stone Company, Limited	10th January ..	3,00,000
3. Bengal Printing Company, Limited	30th September ..	1,00,000
4. Bengal Tea Company, Limited	23rd November ..	2,50,000
5. Dootoorin Estate and Tea Company, Limited	28th January ..	2,50,000
6. Darjeeling and Kurseong Tea and Coffee Company, Limited	28th September ..	90,000
7. Debra Doon and North-West of India Tea Company, Limited	29th October ..	50,00,000
8. Eastern Steam Tug Association, Limited	1st January ..	2,80,000
9. Ganges Steam Navigation Company, Limited	23rd July ..	5,71,000
10. Ganges Canal Navigation Company, Limited	24th October ..	1,00,000
11. Lime and Coal Company, Limited (Pathurghatta)	5th May ..	4,00,000
12. New Times Company, Limited	7th February ..	2,50,000
13. Screw Steam and Tug Company, Limited (Under-Writers)	1st ..	4,00,000
14. Takvar Tea Company, Limited	26th August ..	1,00,000
Total	.....	80,98,600

STATEMENT OF JOINT-STOCK COMPANIES REGISTERED IN 1860.

		Rs.
1. Balasam Tea Company, Limited	21st February 1860	1,00,000
2. Bangalore Bank, Limited	17th September ..	6,00,000
3. Calcutta Docking Company, Limited	4th ..	5,57,000
4. Delhi Bank, Limited	10th October ..	20,00,000
5. Funeral Furnishing Company, Limited	5th April ..	10,000
6. Hope Town Tea Company, Limited (West)	15th June ..	60,000
7. Kurseong and Darjeeling Tea and Coffee Company, Limited	29th September ..	2,50,000
8. Mutlah Agricultural Company, Limited	28th ..	2,00,000
9. People's Bank of India, Limited	21st May ..	6,00,000
10. Rangoon Iron Bazar Company, Limited	10th December ..	1,00,000
11. Silchar Tea Company, Limited	30th April ..	1,25,000
12. Simla Bank Corporation, Limited	2nd May ..	0,15,000
Total	.....	60,27,000

STATEMENT OF JOINT-STOCK COMPANIES REGISTERED IN 1861.

Names of Companies.	Date on which the Company was registered.	Amount of nominal capital in Rs.
Rs.		
1. Agricultural and Horticultural Society	9th September 1861	No capital.
2. Bengal River Steam Company, Limited	22nd March "	10,00,000
3. Beerbohm Coal Company, Limited	1st June "	10,00,000
4. Bagbazar Screw Company, Limited	15th July "	2,00,000
5. Bengal Hurkuru Press, Limited	18th September "	80,000
6. Cachar Company, Limited	9th January "	2,50,000
7. Calcutta Free School	30th May "	No capital.
8. Central Assam Tea Company, Limited	21st December "	5,00,000
9. East India Tea Company, Limited	7th August "	10,00,000
10. Hazarechaugh Tea Company, Limited	17th May "	1,50,000
11. Kousanic Tea Company, Limited	4th January "	1,60,000
12. Kanchanpore Tea Company, Limited	13th November "	2,50,000
13. Murree Brewery Company, Limited	19th February "	6,00,000
14. Parental Academic Institution and Doveton College, Limited	4th May "	No capital.
15. Soorisipore Tea Company, Limited	29th January "	2,50,000
16. Sylhet Tea Company, Limited	29th August "	6,00,000
17. Sylhet and Cachar Tea Company, Limited	18th December "	1,00,000
18. Uncovenanted Service Bank, Limited	31st January "	1,00,000
Total		61,45,000

STATEMENT OF JOINT-STOCK COMPANIES REGISTERED IN 1862.

			Rs.
1. Agra Savings Bank, Limited	8th March 1862	1,40,000	
2. Bengal Military Orphan Society	4th January "	No capital.	
3. Bengal Salt Company, Limited	20th July "	1,00,000	
4. Great Eastern Hotel Company, Limited	28th February "	15,00,000	
5. Gouripore Company, Limited	11th December "	6,00,000	
6. Iron Works Company, Limited, (North of India, Kumaon)	17th May "	4,85,000	
7. Kangra Valley Tea Company, Limited	21st March "	90,000	
8. Labna Tea Company, Limited	11th February "	1,00,000	
9. North-West Indigo Association, Limited	3rd April "	8,00,000	
10. New Silchar Tea Company, Limited		4,00,000	
11. Punjab Bank, Limited	31st March "	5,00,000	
12. Ramgurh Company, Limited	13th May "	10,00,000	
13. Soora Tea Company, Limited	20th November "	2,00,000	
Total		59,01,000	

STATEMENT OF JOINT-STOCK COMPANIES REGISTERED IN 1863.

			Rs.
1. Alliance Tea Company, Limited	2nd July 1863	1,00,000	
2. Allian and Hayes, Limited	7th "	9,00,000	
3. Bank of Upper India, Limited	27th January "	1,00,000	
4. Bengal Oil Company, Limited	5th May "	1,50,000	
5. Bishnauth Tea Company, Limited	6th "	5,00,000	
6. Beal and Company, Limited	13th "	1,50,000	
7. British Burnali Plantation Company, Limited	9th October "	3,00,000	
8. Bengal Steam Tug Company, Limited	9th December "	10,00,000	
9. Cachar and Assam Tea Company, Limited	22nd January "	8,00,000	
10. Central Cachar Tea Company, Limited	2nd May "	8,00,000	
11. Cachar Tea Company, Limited	5th "	12,00,000	
12. Commercial Transport Association, Limited	4th August "	2,00,000	
13. Calcutta Landing and Shipping Company, Limited	7th "	9,00,000	
14. Chatlawhar Tea Company, Limited	15th September "	4,00,000	
15. Calcutta City Banking Corporation, Limited	29th "	50,00,000	
16. Calcutta Ship Company, Limited	10th October "	5,00,000	
17. Calcutta Screwing Company, Limited	27th November "	2,20,000	
18. Calcutta Native Hospital	2nd December "	No capital.	
19. Dohra Doon Tea Company, Limited	31st March "	20,00,000	
20. Darjeeling Transit and Hotel Company, Limited	21st September "	1,00,000	
21. Eastman and Company, Limited	30th April "	3,00,000	
22. Eastern Cachar Tea Company, Limited	18th July "	3,50,000	
23. Equitable Coal Company, Limited	1st August "	8,00,000	
24. Eastern Bengal Indigo Company, Limited	28th "	4,00,000	
25. Elgin Tea Company, Limited	17th November "	1,00,000	
26. Golaghat Assam Tea Company, Limited	30th April "	6,00,000	
27. Great Northern Assam Tea Company, Limited	27th August "	10,00,000	

STATEMENT OF JOINT-STOCK COMPANIES REGISTERED IN 1868.

Name of Companies.	Date on which the Company was registered.	Amount of nominal capital in Rs.
		Rs.
28. Goosery Cotton Mills Company, Limited	9th October 1868	6,00,000
29. Hope Town Equitable Tea Company, Limited	9th March	60,000
30. Hunter and Company, Limited	1st May	4,00,000
31. Hooghly Steam Tug Company, Limited	28th April	3,20,000
32. Howrah Docking Company, Limited	15th September	8,00,000
33. Hylakandy Tea Company, Limited	23rd November	4,00,000
34. Indian New Castle Coal Company, Limited	23rd "	3,80,000
35. Jellalpore Cachar Tea Company, Limited	24th September	1,00,000
36. Kurseong and Darjeeling Tea Company, Limited	12th December	8,00,000
37. Lobong and Minchu Tea Company, Limited	14th March	1,50,000
38. Luckimpore Tea Plantation Company, Limited	18th May	2,00,000
39. Muttus Tea Company, Limited	20th "	4,00,000
40. Mutual Tea Company, Limited	27th June	8,00,000
41. Meerut Cotton Pressing Company, Limited	5th September	1,60,000
42. New Medical Hall Company, Limited	30th April	2,50,000
43. Oriental Steam Tug Association, Limited	2nd November	7,50,000
44. Punkabaree Tea Company, Limited	9th March	2,50,000
45. Punjab Trading Company, Limited	30th December	8,00,000
46. St. James' Theatre Company, Limited	17th March	1,00,000
47. Scott, Thomson and Company, Limited	1st April	5,00,000
48. South Cachar Company, Limited	1st "	3,00,000
49. Spence's Hotel Company, Limited	1st May	6,00,000
50. Seebagor Tea Company, Limited	28th August	4,00,000
51. Sea Salt Company, Limited	15th September	5,00,000
52. Simla Club and North-West Wine Company, Limited	18th	8,00,000
53. Tirhoot Indigo Company, Limited	5th October	9,00,000
54. Union Steam Tug Company, Limited	8th June	8,50,000
55. Victoria Tea Company, Limited	3rd July	10,00,000
56. Watts and Company, Limited	1st May	3,00,000
Total		8,06,10,000

STATEMENT OF JOINT-STOCK COMPANIES REGISTERED IN 1866.

		Rs.
1. Allyghur Cotton Screwing Company, Limited	5th August 1864	25,000
2. Barak Tea Company, Limited	18th March	8,00,000
3. Brewery (Nyc Tal) Company, Limited	24th "	68,000
4. Burmah Rivers Steam Navigation Company, Limited	12th April	20,00,000
5. Bengal Mills Company, Limited	6th September	50,000
6. Brunton's Patent Press Company, Limited	3rd "	6,00,000
7. Clive Steam Tug Company, Limited	9th April	5,00,000
8. Durrung Tea Company, Limited	4th January	5,00,000
9. Elgin Cotton Spinning and Weaving Company, Limited	5th May	3,00,000
10. Himalaya Hotel Company, Limited	2nd February	2,00,000
11. Hooghly Lighter Association, Limited	4th "	2,00,000
12. Hindu Flour Company, Limited	7th April	10,000
13. Indian Cotton Screwing Company, Limited	12th August	4,00,000
14. Indian Daily News Company, Limited	29th June	80,000
15. Jeffery and Company, Limited (Merchant Tailors)	10th February	1,00,000
16. Jersey Tea Company, Limited	14th April	2,00,000
17. Jeypore Tea Company, Limited	1st August	1,00,000
18. Koolovalley Tea Company, Limited	23rd May	1,00,000
19. Labor Transport Company, Limited	28th July	1,00,000
20. Mouacherra Tea Company, Limited	30th January	8,00,000
21. Mussoorie Savings Bank, Limited	31st May	1,00,000
22. Mirzapore and Central Cotton Cleaning and Screwing Company, Limited	22nd July	2,00,000
23. Moran Tea Company, Limited	20th "	6,00,000
24. Nabor Habi Tea Company, Limited	29th April	2,00,000
25. Oudh and United Servico Bank, Limited	9th May	1,00,000
26. Rohilkund and Kumaon Trading Company, Limited	8th "	2,0,000
27. Rangoonee Company, Limited	3rd December	5,00,000
28. Singapore Company, Limited	26th May	5,000
29. Simlab Brewery Company, Limited	17th November	2,00,100
30. Strand Pressing Company, Limited	19th December	6,00,000
31. Takvar Company, Limited	20th February	12,00,000
32. Upper India Commercial Association, Limited	1st October	7,60,000
Total		1,12,28,900

STATEMENT OF JOINT-STOCK COMPANIES REGISTERED IN 1865.

Names of Companies.	Date on which the Company was registered.	Amount of nominal capital in Rs.
Rs.		
1. Assam Trading Company, Limited	18th March 1865	1,00,000
2. Allahabad Bank, Limited	17th April "	9,00,000
3. Bengal Credit Mobilier, Limited	24th February "	50,00,000
4. Bangalore Hotel Company, Limited	21st December "	1,00,000
5. Chuckersah Company, Limited	20th January "	2,00,000
6. Cavery Coffee Company, Limited	8th March "	1,00,000
7. Calcutta Central Press Company, Limited	21st April "	75,000
8. Calcutta Parcels Delivery Company, Limited.	28th May "	25,000
9. Cachar Planters' Hotel Company, Limited	22nd November "	20,000
10. Dehing Company, Limited	18th February "	20,00,000
11. East India Timber Company, Limited	11th "	5,00,000
12. East India Building and General Contract Company, Limited	10th June "	50,00,000
13. Issa Chorra Tea Company, Limited	29th March "	1,00,000
14. Indian Grain and General Produce Company, Limited.	24th April "	10,00,000
15. North-East Saw Mills Company, Limited	20th November "	2,00,000
16. Oudh Banking Corporation, Limited	12th May "	5,00,000
17. Port Canning Hotel Company, Limited	19th January "	30,000
18. Port Canning Land Investment, Reclamation and Dock Company, Limited	25th "	1,90,00,000
19. Punjab Printing Company, Limited	18th September "	1,00,000
20. Pioneer Press Company, Limited	19th December "	1,00,000
21. Salt Water Lakes Reclamation and Irrigation Company, Limited	22nd March "	60,00,000
22. Sarawak Jaines Hindustan Banking and Trading Company, Limited	28th June "	2,50,00,000
23. Wastaria Coffee Company, Limited	23rd December "	48,000
24. Woodstock Tea Company, Limited	22nd January "	3,00,000
Total		6,16,98,000

STATEMENT OF JOINT-STOCK COMPANIES REGISTERED IN 1866.

Names of Companies.	Date on which the Company was registered.	Amount of nominal capital in Rs.
Rs.		
1. Allahabad Railway Co-operative Society, Limited	2nd June 1866	12,000
2. Burmah Steam Tug Company, Limited	12th July "	8,00,000
3. Bridgman Tea Company, Limited	1st September "	60,000
4. Calcutta School Book and Vernacular Literature Society	7th April "	No capital.
5. Durraburh Company, Limited	23rd May "	60,000
6. Futehgurh Orphan Asylum Tent Manufacturing Company, Limited	20th March "	82,000
7. Jamalpore Co-operative Society, Limited	19th January "	30,000
8. Murree Junior Club Company, Limited	6th August "	20,000
9. Simla Assembly Rooms Company, Limited	9th January "	70,000
10. Sonai Tea Company, Limited	26th April "	1,00,000
11. United Bank of India, Limited	14th "	5,00,000
Total		11,64,000

STATEMENT OF JOINT-STOCK COMPANIES REGISTERED IN 1867.

Names of Companies.	Date on which the Company was registered.	Amount of nominal capital in Rs.
Rs.		
1. Borradaile, Schiller Steam Tug Association, Limited	30th May 1867	4,00,000
2. Chandpore, Tea Company, Limited	8th August "	2,50,000
3. Calcutta Opera House Company, Limited	11th September "	40,000
4. Darjeeling Terai Tea Company, Limited	28th October "	1,00,000
5. Eastern Steam Tug Company, Limited	6th December "	1,10,000
6. Fyzaburh Bank, Limited	16th January "	60,000
7. Kuttal Tea Company, Limited	26th "	1,00,000
8. Lucknow Saw Mills and General Contract Company, Limited	28th September "	1,00,000
9. Nasmytha's Patent Pressing Company, Limited	16th "	1,60,000
10. Preparis and Cocos Islands Trading Company, Limited.	8th May "	5,00,000
11. Rangoong Pottery Company, Limited	30th April "	5,000
12. St. Paul's School at Darjeeling		No capital.
Total		18,50,000

STATEMENT OF JOINT-STOCK COMPANIES REGISTERED IN 1868.

Names of Companies.	Date on which the Company was registered.	Amount of nominal capital in Rs.
Rs.		
1. Bank of Calcutta, Limited	24th November 1868	10,00,000
2. New Mutual Tea Company, Limited	16th August "	1,20,000
Total		11,20,000

Statement of Joint-Stock Companies wound up from the year 1857 to the year 1868.

STATEMENT OF JOINT-STOCK COMPANIES WOUND UP DURING 1867.

Name of Companies.	Date on which the Company was wound up.	Amount of Nominal capital in Rs.

STATEMENT OF JOINT-STOCK COMPANIES WOUND UP DURING 1858.

			Rs.
1. Hydraulic Steam Press Company, Limited	... 11th August 1858	...	1,00,000
2. Ice Company, Limited (Rangoon)	... 25th September 1858	..."	20,000
•	Total	... 1,20,000	

STATEMENT OF JOINT-STOCK COMPANIES WOUNDED UP DURING 1859.

R.
6,00,000

1. Copper Company, Limited (East India) ... 27th September 1856 ...

STATEMENT OF JOINT-STOCK COMPANIES WOUNDED UP DURING 1880.

		Rs.
1. Darjeeling and Kurseong Tea and Coffee Company, Limited	27th August 1800	90,000
2. New Times Company, Limited	1st February "	2,50,000
3. Rangoon Iron Bazaar Company, Limited	10th December "	1,00,000
		<hr/> 4,40,000

STATEMENT OF JOINT-STOCK COMPANIES WOUND UP DURING 1881.

			Rs.
1. Calcutta Printing and Publishing Company, Limited	...	5th October 1861	60,000
2. Funeral Furnishing Company, Limited	...	6th September 1861	10,000
3. Lime and Coal Company, Limited (Puthurghatta)	...	1st July 1868	4,00,000
Total			4,60,000

STATEMENT OF JOINT-STOCK COMPANIES WORKED UP DURING 1802.

			Rs.
1. Auction Company, Limited	...	19th September 1892	10,00,000
2. Cachar Company, Limited	...	28th November "	2,50,000
3. Ganges Canal Navigation Company, Limited	...	8th November "	1,00,000
4. New Silchar Tea Company, Limited	...	.....	4,00,000
Total	.....		17,50,000

STATEMENT OF JOINT-STOCK COMPANIES WOUND UP DURING 1883.

				Rs.
1.	Alan and Hayes, Limited	...	7th July	1863
2.	Bag Bazar Screw Company, Limited	...	25th August	2,00,000
3.	British Burmah Plantation Company, Limited	...	9th October	3,00,000
4.	Dobra Dooon and North-West of India Tea Company, Limited	...	2nd April	50,00,000
5.	Mutiah Agricultural Company, Limited	...	7th March	2,00,000
6.	Screw Steam and Tug Company, Limited, (Under-Writers)	...	16th July	4,00,000
7.	Silchar Tea Company, Limited	...	19th May	1,25,000
8.	St. James' Theatre Company, Limited	...	17th March	1,00,000
Total		...		72,25,000

STATEMENT OF JOINT-STOCK COMPANIES WOUND UP DURING 1864.

Names of Companies.	Date on which the Company was wound up.	Amount of nominal capital in Rs.
1. Bengal Harkaru Press, Limited	13th January 1864	80,000
2. Bengal Salt Company, Limited	"	1,00,000
3. Great Northern Assam Tea Company, Limited	27th January 1864	10,00,000
4. Hindu Flour Company, Limited	7th April "	10,000
5. Singapore Company, Limited	26th May "	8,000
6. Tukvar Tea Company, Limited	26th February "	1,00,000
7. Burmah River Steam Navigation Company, Limited	"	20,00,000
Total		32,95,000

STATEMENT OF JOINT-STOCK COMPANIES WOUND UP DURING 1865.

		Rs.
1. Alliance Tea Company, Limited	2nd July 1863	1,00,000
2. Clive Steam Tug Company, Limited	9th April 1864	50,000
3. Darjeeling Transit and Hotel Company, Limited	21st September 1863	1,00,000
4. E. L. Benke and Company, Limited	13th May 1863	1,50,000
5. Elgin Tea Company, Limited	17th November 1863	1,00,000
6. Ganges Steam Navigation Company, Limited	23rd July 1860	5,71,600
7. Hazareebaug Tea Company, Limited	17th May 1861	1,50,000
8. Kurseong and Darjeeling Tea and Coffee Company, Limited	29th September 1860	2,50,000
9. Labac Tea Company, Limited	11th February 1862	1,00,000
10. North-West of India Cotton Screwimg Company, Limited	12th August 1864	4,00,000
11. Tea Salt Company, Limited	13th September 1863	5,00,000
Total		34,71,500

STATEMENT OF JOINT-STOCK COMPANIES WOUND UP DURING 1866.

		Rs.
1. Bengal Oil Company, Limited	6th May 1862	1,50,000
2. Bengal River Steam Company, Limited	22nd March 1861	12,00,000
3. Bengal Mills Company, Limited	6th September 1864	50,000
4. Bengal Steam Tug Company, Limited	"	10,00,000
5. Calcutta Steam Tug Association, Limited	8th September 1868	9,00,000
6. Commercial Transport Association	4th August 1863	2,00,000
7. Calcutta Ship Company, Limited	19th October 1863	5,00,000
8. Delhi Bank, Limited	21st January 1864	20,00,000
9. East India Timber Company, Limited	11th February 1865	6,00,000
10. East India Building and General Contract Company, Limited	10th June 1865	50,00,000
11. Eastern Steam Tug Association, Limited	7th January 1860	5,50,000
12. Hope Town Equitable Tea Company, Limited	9th March 1868	50,000
13. Hunter and Company, Limited	1st May 1863	4,00,000
14. Indian New Castle Coal Company, Limited	23rd November 1863	3,00,000
15. Jerri Tea Company, Limited	14th April 1864	2,00,00
16. South Cachar Company, Limited	1st April 1863	3,00,000
17. Simla Club and North-West Wine Company, Limited	18th September 1863	5,00,000
18. Salt Water Lakes Reclamation and Irrigation Company, Limited	22nd March 1865	60,00,000
19. Union Steam Tug Company, Limited	6th June 1863	8,50,000
20. Watts and Company, Limited	1st May 1863	8,00,000
Total		2,04,20,000

STATEMENT OF JOINT-STOCK COMPANIES WOUND UP DURING 1867.

		Rs.
1. Bengal Credit Mobilier, Limited	23rd February 1865	80,00,000
2. Chakawhar Tea Company, Limited	15th September 1863	4,00,000
3. Cachar and Assam Company, Limited	22nd January 1863	8,00,000
4. Doctooriah Estate and Tea Company, Limited	28th January 1869	2,50,000
5. Fyzabad Bank, Limited	"	50,000
6. Hooghly Steam Tug Company, Limited	28th April 1863	3,20,000
7. Issa Cherra Tea Company, Limited	28th March 1866	1,00,000
8. Moorut Cotton Pressing Company, Limited	8th September 1863	1,50,000
9. National Bank of India, Limited	29th September 1863	50,00,000
10. North-West Indigo Association, Limited	3rd April 1862	8,00,000
11. Rangonca Company, Limited	3rd December 1864	5,00,000
12. Seeripore Tea Company, Limited	29th January 1861	2,50,000
13. Seebugar Tea Company, Limited	28th August 1863	4,00,000
14. Strand Pressing Company, Limited	10th December 1864	6,00,000
15. Sylhet and Cachar Tea Company, Limited	29th August 1861	8,00,000
Total		1,80,20,000

STATEMENT OF JOINT-STOCK COMPANIES WOUND UP DURING 1868.

Names of Companies.	Date on which the Company was registered.	Amount of nominal capital in Rs.
		Rs.
1. Bangalore Hotel Company, Limited	21st December 1865	1,00,000
2. Cachar Planters Hotel Company, Limited	22nd November 1865	20,000
3. Cachar Tea Company, Limited	6th May 1868	12,00,000
4. Central Assam Tea Company, Limited	21st December 1861	5,00,000
5. Eastman and Company, Limited	30th April 1863	3,00,000
6. Golaghat Assam Tea Company, Limited	30th April 1863	6,00,000
7. Hope Town Tea Association, Limited	26th July 1868	3,12,500
8. Indian Daily News Company, Limited	20th June 1864	30,000
9. Ishera Yarn Mills Company, Limited	22nd December 1858	6,00,000
10. Jumalpore Co-operative Society, Limited	19th January 1866	10,000
11. Jeypore Tea Company, Limited	1st August 1864	1,00,000
12. Labor Transport Company, Limited	28th July 1864	1,00,000
13. Mutual Tea Company, Limited	27th June 1863	8,00,000
14. New Medical Hall Company, Limited	30th April 1863	2,50,000
15. Oriental Steam Tug Association, Limited	2nd November 1863	7,50,000
16. Oudh Banking Corporation, Limited	12th May 1865	5,00,000
17. People's Bank of India, Limited	1st May 1860	5,00,000
18. Prepris and Cocos Islands Company, Limited	31st May 1867	5,00,000
19. Sonai Tea Company, Limited	26th April 1866	1,00,000
Total		72,72,500

Statement of Joint-Stock Companies transferred to the Registrar of Joint-Stock Companies in the North-Western Provinces and Punjab during the years 1867 and 1868.

Names of Companies transferred to the Registrar of Joint-Stock Companies, North Western Provinces.	Date of transfer.	Amount of nominal capital in Rs.
		Rs.
1. Allahabad Printing Association, Limited	24th July 1868	25,000
2. Agra Savings Bank, Limited	May ..	1,40,000
3. Alligbur Cotton Screwink Company, Limited	ditto ..	25,000
4. Allahabad Bank, Limited	ditto ..	3,00,000
5. Allahabad Railway Co-operative Society, Limited	ditto ..	40,000
6. Bank of Upper India, Limited	April 1868	10,00,000
7. Brewery (Nuno Tal) Company, Limited	ditto ..	58,900
8. Elgin Cotton Spinning and Weaving Company, Limited	ditto ..	3,00,000
9. Futtibgurh Orphan Asylum Tent Manufacturing Company, Limited	May 1868	38,000
10. Iron Works Company, Limited (North of India, Kumaon)	ditto ..	4,65,000
11. Indian Grain and General Produce Company, Limited	ditto ..	10,00,000
12. Koussanie Tea Company, Limited	ditto ..	2,13,000
13. Lucknow Saw Mills and General Contract Company, Limited	2nd November 1868	1,00,000
14. Mussoorie Savings Bank, Limited	24th July 1868	1,06,000
15. Mirzapore and Central Cotton Cleaning and Screwing Company, Limited	May 1868	2,00,000
16. Pioneer Press Company, Limited	ditto ..	1,00,000
17. Rohilkund and Kumaon Trading Company, Limited	ditto ..	2,00,000
18. Uncovenanted Service Bank, Limited	April 1868	1,06,000
Total	...	64,03,900

Names of Companies transferred to the Registrar of Joint-Stock Companies, Punjab.	Date of transfer.	Amount of nominal capital in Rs.
		Rs.
1. Kangra Valley Tea Company, Limited	18th July 1867	96,000
2. Jeffery and Company, Limited (Merchant Tailors)	May 1867	1,00,000
3. Kooleovalley Tea Company, Limited	ditto ..	1,00,000
4. Murree Brewery Company, Limited	18th September 1867	5,00,000
5. Murree Junior Club Company, Limited	Juno ..	20,000
6. Punjab Bank, Limited	May ..	6,00,000
7. Punjab Printing Company, Limited	ditto ..	1,00,000
8. Simla Bank Corporation, Limited	ditto ..	6,15,000
9. Simla Brewery Company, Limited	ditto ..	2,00,000
10. Simla Assembly Rooms Company, Limited	ditto ..	70,000
11. Upper India Commercial Association, Limited	ditto ..	7,50,000
12. United Bank of India, Limited	ditto ..	5,00,000
Total	...	85,51,000

Statement of Joint-Stock Companies defunct.

Name of Companies.	Amount of nominal capital in Rs.
1. Barak Tea Company, Limited	3,00,000
2. Calcutta Parcels Delivery Company, Limited	25,000
3. Churkereah Company, Limited	2,00,000
4. Himalayah Hotel Company, Limited	2,00,000
5. Hooghly Lighter Association, Limited	2,00,000
6. Sarawak Jaines Hindustan Banking and Trading Company, Limited	2,50,00,000
7. Woodstock Tea Company, Limited	2,00,000
Total	2,61,25,000

Statement of Joint-Stock Companies registered during 1869.

Name of Companies.	When registered.	Amount of nominal capital in Rs.
Arcuttipore Tea Company, Limited	19th January 1869	8,00,000
Hong-Kong and Shanghai Banking Corporation	7th April 1869	50,00,000 five millions of dollars, Hong-Kong Currency, equal to Rs. 1,12,50,000
*Rengal Masonic Association	4th August 1869	Nil
Muddenhaut Tea Company, Limited	31st December 1869	1,50,000
Total		1,17,00,000

* Registered under Act XXI of 1860.

Statement of Joint-Stock Companies wound up during 1869.

Name of Companies.	When registered.	Amount of nominal capital in Rs.
Calcutta Screwing Company, Limited	27th November 1863	2,20,000
Assam Trading Company, Limited	18th March 1865	1,00,000
Nahor Itali Tea Company, Limited	28th April 1864	2,00,000
Punjab Trading Company, Limited	30th December 1863	6,00,000
Raneegunge Pottery Company, Limited	30th April 1867	50,000
Leborg and Minchu Tea Company, Limited	18th March 1863	1,50,000
Hylakandy Tea Company, Limited	23rd November 1863	2,00,000
Spence's Hotel Company, Limited	1st May 1863	5,00,000
Total		20,20,000

Comparative Statement showing the number and capital of Joint-Stock Companies registered and wound up during the period from 1857 to 1869.

	1857.	1858.	1859.	1860.	1861.	1862.	1863.	1864.	1865.	1866.	1867.	1868.	1869.	Total.				
No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.				
1 Companies registered ...	12,50,000	0	26,00,000	14	32,54,500	12	56,57,000	16	50,42,000	15	52,01,000	15	50,42,000	12	11,25,000	4	11,17,61,000	... 15,13,45,400
2 Ditto wound up	2	1,30,000	1	3,00,000	2	4,40,000	3	4,60,00	4	12,40,000	3	12,40,000	3	2,63,50,000	19	29,72,500	8 29,36,000 101 3,30,94,000 ...
3 Ditto of which were defunct	7	7,61,25,000	...
4 Ditto transferred to the Register for N.W.P.
5 Ditto ditto to the Register for the Punjab
6 Companies remaining on the Calcutta register	71	1,90,45,800

H. BEVERLEY,
Registrar-General.

Meteorological Telegraphic Report for the period 26th Feb. to 4th Mar. 1870.

Station.	Date.	Hour.	Barometer read in 22° duced to sea level.	THERMOMETER.		Humidity Sat. = 100.	WIND.		Rain.	Weather initials.	Clouds.
				Dry.	Wet.		Direction.	Velocity.			
CALCUTTA.	Feb.	Inches.		⊕	⊕					Indoor.	
	26th	10	29.912	29.980	77.2	67.2	S W				
	16	29.921	29.941	80.0	88.0	35	S by E				CK
	27th	10	29.931	29.940	76.3	66.8	S W				C
	16	29.940	29.941	88.3	89.3	31	N				
	28th	10	29.947	29.955	78.5	80.5	S S W				b b
MAR.	16	29.950	29.957	87.6	87.8	90	W N W				b b
1st	10	29.954	29.959	79.0	84.0	51	S R				b b
	16	29.959	29.974	89.0	85.4	30	W S W				b b
2nd	10	29.961	29.977	81.4	71.5	58	S by W				b b
	16	29.974	29.976	92.7	71.0	27	W N W				b b
3rd	10	29.973	29.971	80.7	83.0	38	W W				b b
	16	29.978	29.970	81.8	80.8	34	W N W				b b
4th	10	29.981	29.979	84.8	87.2	38	E				b b
	16	29.980	29.979	81.2	70.0	31	W S W				b b
FEB.	10	29.978	29.984	78	74	81	N N E				K
	16	29.977	29.983	80	75	78	S W W				K
27th	10	29.979	29.979	78	75	82	N N W				C
	16	29.981	29.981	80	73	70	S W				b b
28th	10	29.988	29.974	78	74	81	S				b b
MAR.	16	29.989	29.985	89	75	70	W S W				b b
1st	10	29.993	29.983	80	74	78	S W				b b
	16	29.988	29.974	83	73	67	S W				b b
2nd	10	29.981	29.977	82	76	60	W S W				b b
	16	29.987	29.984	84	70	67	W S W				b b
3rd	10	29.989	29.985	85	73	54	W N W				b b
	16	29.987	29.981	81	77	71	S S W				b b
4th	10	29.980	29.985	85	74	67	S E				b b
	16	29.983	29.989	80	75	60	S W				b b
FEB.	10	29.974	29.918	80	70	68	N E by N				K S
	16	29.945	29.934	81	69	61	W S W				K S
27th	10	29.904	29.918	72	60	71	N				K, N
	16	29.970	29.944	70	65	75	N N E				
28th	10	29.938	29.944	74	69	70	N W				
MAR.	16	29.703	29.813	83	73	66	W S W				
1st	10	29.981	29.908	81	69	61	N N W				
	16	29.770	29.800	83	71	52	S W				
2nd	10	29.850	29.951	81	72	53	W S W				
	16	29.781	29.853	81	73	54	W S W				
3rd	10	29.823	29.933	86	71	44	R S E				
	16	29.720	29.811	88	70	37	S W				
4th	10	29.834	29.946	84	68	40	N W				
	16	29.737	29.835	80	71	34	W S W				
FEB.	26th	10	29.900	29.900	83	73	66	N N W			
	16	29.840	29.826	83	73	60	N N W				
27th	10	29.941	29.901	81	71	61	N by W				
	16	29.856	29.856	83	72	60	N N W W				
28th	10	29.940	29.970	83	76	61	N N N W				
MAR.	16	29.947	29.917	87	76	70	N N R				
1st	10	29.914	29.914	73	71	96	E N E				
	16	29.904	29.904	81	76	74	E N E E				
2nd	10	29.978	29.908	88	76	67	E N E E				
	16	29.907	29.907	83	76	67	N E by E				
3rd	10	29.956	29.958	89	74	64	N N N E				
	16	29.634	29.884	83	74	53	R N N E				
4th	10	29.940	29.976	80	74	74	R N N E				
	16	29.820	29.980	82	73	63	R by N				
FEB.	28th	10	29.970	29.121	78	79	56	N E			
	16	29.828	29.950	84	79	63	E N				C, CS
27th	10	29.918	29.101	78	69	61	N N				C, CS
	16	29.873	29.955	85	70	61	E by S				C, CK
28th	10	29.924	29.108	76	70	74	E E				C
MAR.	16	29.913	29.945	81	69	43	E by S				
1st	10	29.911	29.974	77	66	56	E W				
	16	29.910	29.921	88	66	29	W W				
2nd	10	29.931	29.914	77	67	54	N S				
	16	29.709	29.840	87	66	27	N by E				
3rd	10	29.910	29.913	78	64	43	N W				
	16	29.745	29.927	87	69	36	N W				
4th	10	29.908	29.903	79	66	47	N W				
	16	29.741	29.936	88	65	33	S by W				
FEB.	26th	10	29.940	29.945	78	68	76	Calm			
	16	29.981	29.904	78	69	65	Calm				K S, N
27th	10	29.914	29.930	76	70	76	N N				K S, N
	16	29.923	29.938	79	72	73	N N				C, CK, CS
28th	10	29.941	29.940	75	70	78	Calm				K S, CR
MAR.	16	29.909	29.927	73	67	74	Calm				
1st	10	29.973	29.983	83	71	52	N N W				
	16	29.934	29.970	76	68	69	N E				C
2nd	10	29.920	29.935	84	70	46	N W				
	16	29.925	29.941	78	66	49	N W				
3rd	10	29.906	29.921	82	68	91	N W				
	16	29.979	29.995	75	60	50	Calm				
4th	10	29.905	29.930	88	70	61	N W				C, CS

* Velocity of wind in miles per hour.

CALCUTTA,
The 5th March 1870.HENRY F. BLANFORD,
Metereological Reporter to the Govt. of Bengal.

Weekly Report of Rainfall compiled at the Meteorological Reporter's Office.

District.	STATION.	Rain from 1st Feb. 1870. 20th Feb. 1870.		Rain from 1st JANUARY 1870.		REMARKS.
		Rain.	Up to date.			
SOUTH-WESTERN.	Pooree	Nil	Not received	Nil	20th Feb. 1870.	
	Falso Point	Net received	ditto	ditto	8th Feb. 1870.	
	Cuttack { Telegraph Office	Nil	ditto	1'00	27th Feb. 1870.	
	Jail	ditto	ditto	1'05	ditto.	
	Sambalpore	ditto	Not received	2'30	20th Feb. 1870.	
WESTERN.	Bulangore	ditto	ditto	1'18	ditto.	
	Midnapore	Nil	Nil	0'90	27th Feb. 1870.	
	Banckrah	ditto	ditto	0'35	ditto.	
	Glyobessa	ditto	Not received	1'50	20th Feb. 1870	
	Purulia	ditto	Nil	1'29	27th Feb. 1870.	
CENTRAL.	Burivali	ditto	ditto	0'20	ditto.	
	Raniganj	ditto	ditto	0'15	ditto.	
	Sooree	Not received	Not received	---	27th Feb. 1870.	
	Douglar	Nil	Nil	0'40	6th Feb. 1870.	
	Burhia	Not received	Not received	0'45	27th Feb. 1870.	Not received 2nd to 18th Jan.
NORTH-WESTERN.	Hazareebagh	ditto	Nil	0'28	27th Feb. 1870.	Not received 14th to 20th Feb.
	Haugor Island	Nil	Nil	Nil	27th Feb. 1870.	
	Contui	Not received	Not received	ditto	13th Jan. 1870.	
	Calcutta	Nil	Nil	0'77	27th Feb. 1870.	
	Howrah	ditto	ditto	1'42	ditto.	
NORTHERN.	Hoogly { Jail	ditto	ditto	1'00	ditto.	
	College	Not received	Not received	---	27th Feb. 1870.	
	Jamore	Nil	Nil	0'20	27th Feb. 1870.	
	Berhampore	Not received	Not received	Nil	13th Feb. 1870.	Not received 7th to 13th Feb.
	Furkredpore	Nil	Nil	ditto	27th Feb. 1870.	
NORTHERN.	Burrimali	ditto	ditto	ditto	ditto.	Not received 1st to 16th Jan.
	Kishnagur	ditto	ditto	0'18	ditto.	Not received 1st Jan. to 14th Feb.
	Manghat	ditto	ditto	Nil	ditto.	
	Bongong	ditto	ditto	0'30	ditto.	Not received 1st to 9th Jan.
	Mehaspore	ditto	ditto	Nil	ditto.	Not received 1st Jan. to 6th Feb.
NORTHERN.	Chowdangab	ditto	ditto	ditto	ditto.	Not received 1st Jan. to 6th Feb.
	Bhadrakpore	Nil	Nil	0'50	27th Feb. 1870.	Not received 24th to 30th Jan.
	Mohgbyr	ditto	ditto	0'10	ditto.	
	Patna	ditto	ditto	0'04	ditto.	
	Arrah	ditto	ditto	Nil	ditto.	
NORTHERN.	Buxar	ditto	ditto	0'15	ditto.	
	Chunar	ditto	ditto	Nil	ditto.	
	Champarpur	ditto	ditto	---	20th Feb. 1870.	Not received 3rd to 18th Jan.
	Benares	ditto	Not received	ditto	ditto.	
	Rampore Benaleah	Nil	Nil	0'08	20th Feb. 1870.	
NORTHERN.	Prims	ditto	ditto	---	27th Feb. 1870.	
	Maldah	ditto	Not received	---	20th Feb. 1870.	
	Bugrah	ditto	Nil	---	27th Feb. 1870.	Not received 1st to 8th Jan.
	Dumnespore	Net received	---	---	ditto.	Not received 14th to 20th Feb.
	Bungpore	Nil	Not received	---	20th Feb. 1870.	Not received 10th to 13th Jan.
NORTHERN.	Jalpigoree	ditto	Nil	---	27th Feb. 1870.	
	Burn	Not received	---	---	27th Feb. 1870.	
	Darjeeling	Nil	Not received	1'21	27th Feb. 1870.	
	Gowalparah	Nil	Nil	0'15	27th Feb. 1870.	
	Gowhattee	ditto	Not received	0'30	20th Feb. 1870.	
NORTHERN.	Shillong	ditto	ditto	Nil	ditto.	
	Nozong	0'70	ditto	0'70	ditto.	Not received 1st Jan. to 15th Feb.
	Tripura	Nil	ditto	1'15	ditto.	
	Dholebaghun	0'15	ditto	1'60	ditto.	
	Seebnazar	Nil	ditto	1'30	ditto.	
NORTHERN.	Debroughur	Not received	---	4'40	6th Feb. 1870.	Not received 1st to 8th Jan.
	Samnanghatting	Nil	ditto	0'25	20th Feb. 1870.	Not received 1st and 2nd Jan.
	Cherra Poonee	Not received	---	---	---	
	Dacca	Not received	Nil	Nil	27th Feb. 1870.	Not received 10th to 16th Jan.
	Myunning	ditto	Not received	0'05	13th Feb. 1870.	and 14th to 20th Feb.
EASTERN.	Sylhet	Nil	ditto	0'80	20th Feb. 1870.	
	Cuttia	ditto	ditto	0'90	ditto.	
	Aenkhalil Hylakandy	ditto	ditto	0'83	ditto.	
	Tippore	ditto	ditto	0'10	ditto.	
	Nookhally	ditto	ditto	Nil	ditto.	
EASTERN.	Chitra- { Telegraph Office	ditto	Not received	---	27th Feb. 1870.	
	Jail	ditto	ditto	---	20th Feb. 1870.	
	Rangamates Hill	ditto	ditto	---	ditto.	
	Akyab	Nil	Nil	Nil	27th Feb. 1870.	

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY MAIN LINE.

Approximate Return of Traffic for Week ended 20th February 1870 on 1,131 miles open.

Number of Passengers.	COACHING TRAFFIC.			MERCERIAES AND MINERAL TRAFFIC.			Total Traffic Receipts.	
	Rs. As. P.		E. s. d.	Mds. Brs.	Rs. As. P.			
	Coaching Receipts.	Weight carried.	Receipts.					
Total Traffic for the week ...	1,04,574	11,35,778 14 0	16,939 1 4	7,00,201 0	12,70,998 15 0	84,549 1 6	81,497 8 10	
Or per mile of Railway ...	175	16 0	16 10 0	133 3	13 11 0	30 11 0	45 10 0	
For previous 6 weeks of half-year ...	7,78,708	15,18,184 14 3	18,328 19 3	48,53,325 30	26,05,984 7 0	2,23,870 16 3	8,78,107 10 7	
Total for 7 weeks ...	8,81,542	17,03,723 18 11	1,50,174 19 0	50,53,605 30	20,82,703 7 0	2,78,410 19 1	4,29,304 18 0	
COMPARISON.								
Total for corresponding week of previous year ...	1,10,520	1,77,982 10 8	16,918 1 0	7,06,406 0	13,30,344 1 5	40,374 1 5	50,268 3 11	
Per mile of Railway corresponding week of previous year ...	167	13 11	14 10 0	133 3	13 10 0	30 10 0	45 0 0	
Total to corresponding date of previous year ...	7,86,924	12,71,519 0 0	1,16,345 18 11	53,70,180 0	29,50,611 7 0	2,74,880 7 6	3,71,868 6 7	

+ Rs. 5,618-10-0 added as East Indian Railway proportion from Loddiana to Jubbulpore on account of Troops Train.

+ Rs. 3,011-14-0 added on account of freight of locomotive coal carried on Jubbulpore line.

EAST INDIAN RAILWAY JUBBULPORE LINE.

Approximate Return of Traffic for Week ended 20th February 1870 on 223 miles open.

Number of Passengers.	COACHING TRAFFIC.			MERCERIAES AND MINERAL TRAFFIC.			Total Traffic Receipts.	
	Rs. As. P.		E. s. d.	Mds. Brs.	Rs. As. P.			
	Coaching Receipts.	Weight carried.	Receipts.					
Total Traffic for the week ...	4,295	11,32,178 0 0	1,023 15 8	60,565 20	12,446 0 0	1,140 17 8	3,172 13 11	
Or per mile of Railway ...	99	17 1	0 2 4	55 13 0	55 13 0	0 2 4	14 4 8	
For previous 6 weeks of half-year ...	42,337	1,30,574 2 11	11,009 0 0	2,80,983 0	78,170 7 9	6,615 12 6	18,584 18 4	
Total for 7 weeks ...	46,027	1,52,740 13 4	14,008 1 9	83,327 20	84,616 7 0	7,758 10 1	31,758 11 5	
COMPARISON.								
Total for corresponding week of previous year ...	3,773	11,858 8 2	1,040 14 0	59,543 10	17,334 4 10	1,578 17 11	2,619 13 8	
Per mile of Railway corresponding week of previous year ...	50	14 7	6 13 4	77 10	77 10	7 1 7	11 14 11	
Total to corresponding date of previous year ...	33,984	26,016 8 3	6,501 14 0	40,579 30	11,602 4 3	10,715 1 1	10,610 18 1	

+ Rs. 5,183-12-3 added as Jubbulpore line proportion from Loddiana to Jubbulpore on account of Troops Train.

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for Week ended 19th February 1870 on 113½ miles open.

Number of Passengers.	COACHING TRAFFIC.			MERCERIAES AND MINERAL TRAFFIC.			Total Traffic Receipts.	
	Rs. As. P.		E. s. d.	Mds. Brs.	Rs. As. P.			
	Coaching Receipts.	Weight carried.	Receipts.					
Total Traffic for the week ...	28,418	17,002 13 0	1,580 10 10	80,310 0	18,110 6 0	1,800 2 4	8,880 10 2	
Or per mile of Railway ...	248	150 14 10	18 10 0	841 36	150 14 0	14 16 0	38 0 11	
For previous 7 weeks of half-year ...	1,72,563	1,17,554 7 0	10,770 10 0	60,13,661 0	91,904 2 9	6,429 11 0	19,800 7 6	
Total for 8 weeks ...	2,00,769	1,84,847 4 5	12,342 13 4	7,09,201 0	11,10,014 8 0	10,086 18 4	23,437 4 4	
COMPARISON.								
Total for corresponding week of previous year ...	32,210	15,787 5 51	1,722 8 5	1,10,465 27	20,428 6 51	2,056 4 1	3,777 7 4	
Per mile of Railway corresponding week of previous year ...	249	165 14 3	15 11 2	1,046 38	197 16 7	15 2 11	36 7 1	
Total to corresponding date of previous year ...	1,87,326	1,54,614 6 51	11,406 10 0	7,80,914 11	10,6,621 9 51	11,415 11 11	23,616 6 11	

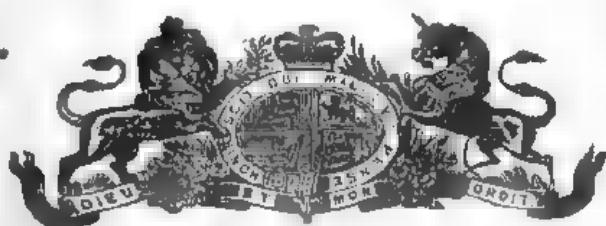
CALCUTTA AND SOUTH-EASTERN STATE RAILWAY.

Approximate Return of Traffic for Week ended 19th February 1870 on 28 miles open.

Number of Passengers.	COACHING TRAFFIC.			MERCERIAES AND MINERAL TRAFFIC.			Total Traffic Receipts.	
	Rs. As. P.		E. s. d.	Mds. Brs.	Rs. As. P.			
	Coaching Receipts.	Weight carried.	Receipts.					
Total Traffic for the week ...	5,284	980 13 0	98 1 8	10,039 30	618 14 0	47 11 4	128 10 10	
Or per mile of Railway ...	196	34 5 6	5 2 11	641 0	18 6 0	1 16 0	6 10 11	
For previous 7 weeks of half-year ...	36,137	6,268 2 9	674 11 7	80,184 10	2,919 0 0	208 2 4	423 0 11	
Total for 8 weeks ...	40,341	7,258 15 0	698 13 1	1,04,154 4	2,338 7 0	308 0 0	940 13 9	
COMPARISON.								
Total for corresponding week of previous year ...	6,626	1,255 8 89	115 1 0	10,038 27	631 11 8	54 10 0	128 7 8	
Per mile of Railway corresponding week of previous year ...	181	44 15 4	4 2 1	660 0	22 5 3	1 9 0	6 3 11	
Total to corresponding date of previous year ...	46,504	6,447 5 49	774 8 9	91,017 28	4,045 8 3	370 10 0	1,145 6 9	

No. 11.

of 1870



SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, MARCH 16, 1870.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT, separately, on payment of six Rupees per annum if delivered in Calcutta, or twelve Rupees if sent by Post.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY MAIN LINE.

Approximate Return of Traffic for Week ended 27th February 1870 on 1,131 miles open.

	COACHING TRAFFIC.			MERCANDISE AND MINERAL TRAFFIC.			Total Traffic Receipts.
	Number of Passengers.	Coaching Receipts.	Weight carried.	Receipts.			
Total Traffic for the week ...	1,18,240	Rs. As. P. 1,54,490 10 0	£ s. d. 16,912 5 19	Mds. Brs. 6,58,857 20	Rs. As. P. 4,77,459 16 5	£ s. d. 45,787 3 3	Rs. As. P. 50,478 7 0
Or per mile of Railway ...	163	8 1	14 19 1	421	8 0	23 12 11	53 10 0
For previous 7 weeks of half-year ...	8,83,342	17,03,723 12 11	1,66,174 18 9	56,55,868 30	29,52,769 7 0	2,73,610 19 5	4,30,304 13 5
Total for 8 weeks ...	9,86,563	18,86,230 6 11	1,78,086 17 7	57,46,619 10	34,60,223 6 0	3,17,187 3 10	4,84,276 9 5
COMPARISON.							
Total for corresponding week of previous year ...	90,779	1,48,888 8 10	18,663 10 6	8,01,323 10	4,51,885 16 0	41,877 0 19	58,020 11 0
Per mile of Railway corresponding week of previous year ...	.....	131 0 7	18 1 3	.....	899 1 0	36 11 2	46 12 11
Total to corresponding date of previous year ...	9,45,732	14,80,857 16 71	1,30,100 0 7	31,71,512 10	34,47,947 6 0	5,16,084 3 0	4,64,285 16 1

* Rs. 14,181 6 0 added on account of missing returns from Cawnpore in week ending 28th January 1870.

EAST INDIAN RAILWAY JUBBULPORE LINE.

Approximate Return of Traffic for Week ended 27th February 1870 on 223 miles open.

	Rs. As. P.	£ s. d.	Mds. Brs.	Rs. As. P.	£ s. d.	£ s. d.
Total Traffic for the week ...	4,404	*21,985 19 8	1,940 7 2	46,881 10	12,424 6 6	1,138 19 1
Or per mile of Railway ...	56	8 10	5 14 10	56	12 6	3 2 9
For previous 7 weeks of half-year ...	49,027	1,52,730 12 4	14,092 1 8	53,4277 20	14,610 7 0	1,734 10 3
Total for 8 weeks ...	51,003	17,46,618 7 10	15,951 6 5	92,948 30	27,010 14 3	2,803 9 3
COMPARISON.						
Total for corresponding week of previous year ...	3,847	10,062 11 4	929 10 1	23,954 0	18,078 0 1	1,198 5 6
Per mile of Railway corresponding week of previous year ...	.....	46 2 1	6 2 0	.....	66 9 11	5 7 6
Total to corresponding date of previous year ...	32,010	1,06,092 3 7	9,754 6 1	42,733 30	12,994 4 5	11,916 8 6

* Rs. 0,617 14 7 added on account of Jubbulpore proportion for missing returns of extra Troops Train run in week ending 30th January 1870.

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for Week ended 26th February 1870 on 113½ miles open.

	Rs. As. P.	£ s. d.	Mds. Brs.	Rs. As. P.	£ s. d.	£ s. d.
Total Traffic for the week ...	25,861	10,441 9 9	1,600 15 1	1,23,480 0	17,768 10 0	1,823 10 11 0
Or per mile of Railway ...	229	162 12 10	14 18 7	1,106 0	150 14 4	29 8 3
For previous 8 weeks of half-year ...	2,00,703	1,34,047 4 6	12,542 13 4	7,92,201 0	1,10,914 8 0	10,084 15 4
Total for 9 weeks ...	2,26,664	1,53,091 14 8	14,003 5 5	8,34,081 1	1,27,788 8 3	11,713 9 8
COMPARISON.						
Total for corresponding week of previous year ...	28,822	14,275 14 8	1,075 11 4	1,53,736 314	19,400 2 0	1,787 2 11
Per mile of Railway corresponding week of previous year ...	250	161 0 0	14 15 11	1,223 0	172 2 5	15 15 7
Total to corresponding date of previous year ...	31,10,210	1,42,003 2 6	13,460 4 4	8,80,250 23	1,54,017 3 31	14,860 14 10

CALCUTTA AND SOUTH-EASTERN STATE RAILWAY.

Approximate Return of Traffic for Week ended 20th February 1870 on 28 miles open.

	Rs. As. P.	£ s. d.	Mds. Brs.	Rs. As. P.	£ s. d.	£ s. d.
Total Traffic for the week ...	5,127	1,079 18 6	98 19 4	18,809 0	1,441 10 8	183 10 0
Or per mile of Railway ...	168	98 8 11	8 10 8	409 0	62 8 2	4 16 0
For previous 8 weeks of half-year ...	40,041	7,223 15 6	662 18 1	1,04,191 0	8,359 7 9	808 6 6
Total for 9 weeks ...	43,664	8,206 10 0	761 12 5	1,17,933 4	4,800 2 3	440 0 0
COMPARISON.						
Total for corresponding week of previous year ...	6,028	1,221 3 114	112 19 2	21,536 33	758 0 0	69 11 6
Per mile of Railway corresponding week of previous year ...	261	44 0 2	4 0 8	806 0	27 1 2	2 9 0
Total to corresponding date of previous year ...	64,187	9,379 9 6	867 7 11	1,13,653 23	6,583 3 0	440 0 0

Meteorological Telegraphic Report for the period 5th to 11th March 1870.

STATION.	Date.	Hour.	Barometer 10 ³² in. dials 3	Barometer 10 ³² dials 10 level.	THERMOMETER.		Humidity Scale 100	WIND.		Rain.	Weather initials.	CLOTHES.
					Dry.	Wet.		Direction.	Velocity.			
MAR.		Inches.			Θ	Θ				Inches.		
5th	10	29.060	29.064	80.0	72.0	66	S S W			b b	C	
	16	29.055	29.053	81.3	71.6	51	S W			b b	CCC	
6th	10	29.057	29.076	78.6	73.0	78	N W			b b	CCC	
	16	29.016	29.084	81.3	71.7	26	W			b b	CCC	
7th	10	29.031	29.010	82.0	71.8	58	S W			b b	CCC	
	16	29.000	29.018	82.0	72.5	33	W S W			b b	CCC	
8th	10	29.034	29.002	82.0	68.8	20	N N W			b b	CCC	
	16	29.037	29.015	82.7	68.8	82	N W N			b b	CCC	
9th	10	29.033	29.061	81.7	65.0	25	W by N			b b	CCC	
	16	29.070	29.000	80.2	69.5	35	V			b b	CCC	
10th	10	29.018	29.034	81.0	67.6	46	S by W			b b	CCC	
	16	29.008	29.020	82.0	70.5	30	W			b b	CCC	
11th	10	29.001	29.019	80.7	67.0	44	S S W			b b	80	
	16	29.064	29.029	81.8	70.4	30	W by S			b b	CK	
MAR.												
5th	10	29.074	29.050	80	77	46	N			b f	CCC	
	16	29.058	29.044	83	78	79	B S W	1		b m	CCC	
6th	10	29.001	29.007	83	78	52	N W	1		b m	CCC	
	16	29.031	29.037	84	78	47	S W	1		b m	CCC	
7th	10	29.044	29.050	83	77	75	W N W	1		b m	CCC	
	16	29.039	29.035	85	76	64	W S W	1		b m	CCC	
8th	10	29.038	29.003	83	78	49	N S E	1		b m	CCC	
	16	29.021	29.027	82	78	37	N E	1		b m	CCC	
9th	10	29.064	29.070	84	66	38	S E	2		b m	CCC	
	16	29.020	29.026	88	74	48	B S W	1		b m	CCC	
10th	10	29.029	29.073	89	78	68	W N W	1		b m	CCC	
	16	29.041	29.067	87	74	51	W S W	1		b m	CCC	
11th	10	29.022	29.070	83	78	78	W N W	1		b m	CK	
	16	29.079	29.080	86	77	66	S S W	1		b m	CK	
SACRED ISLANDS.												
CARTAGENA.												
MADRAS.												
CYPRUS.												
ARMENIA.												
MAR.												
5th	10	29.634	29.046	84	63	26	N N W	6.2°		b m	OK	
	16	29.747	29.060	89	67	46	W B W	10.5°		b m	OK	
6th	10	29.642	29.040	89	72	49	E	5.2°		b m	OK	
	16	29.747	29.066	69	71	37	S W	7.5°		b m	OK	
7th	10	29.820	29.039	87	73	49	S W S W	40°		b m	OK	
	16	29.743	29.041	86	78	61	S S W	42°		b m	OK	
8th	10	29.807	29.018	85	75	60	V	46°		b m	OK	
	16	29.710	29.010	88	74	49	S W	8.7°		b m	OK	
9th	10	29.807	29.017	88	70	41	N W	9.1°		b m	OK	
	16	29.703	29.011	89	64	10	W S W	9.1°		b m	OK	
10th	10	29.703	29.000	87	68	38	W S W	4.8°		b m	OK	
	16	P	P	88	68	34	W S W	6.1°		b m	OK	
11th	10	29.700	29.000	88	74	54	W S W	4.4°		b m	OK	
	16	29.693	29.003	88	78	46	B W	0.0°		b m	OK	
SACRED ISLANDS.												
CARTAGENA.												
MADRAS.												
CYPRUS.												
ARMENIA.												
MAR.												
5th	10	29.054	29.041	88	72	56	E	7°		b e		
	16	29.043	29.073	83	71	52	E by N	8°		b e		
6th	10	29.075	29.005	83	74	63	E	5.6°		b e		
	16	29.501	29.001	83	76	67	E R E	5.6°		b e		
7th	10	29.064	29.041	85	74	44	E E E	4.6°		b e		
	16	29.041	29.071	82	73	63	E S E	3.6°		b e		
8th	10	29.043	29.073	88	74	68	E S E	3.6°		b e		
	16	29.026	29.026	86	70	61	E S E	7.5°		b e		
9th	10	29.021	29.054	84	78	64	E S E E	7.5°		b e		
	16	29.817	29.047	88	75	60	E S E E	7.5°		b e		
10th	10	29.017	29.047	84	74	60	S S E	6.6°		b e		
	16	29.018	29.018	85	74	57	E by S	2.6°		b e		
11th	10	29.006	29.066	84	75	64	E by S	5.6°		b e		
	16	29.018	29.046	84	79	53	S E	7.5°		b e		
SACRED ISLANDS.												
CARTAGENA.												
MADRAS.												
CYPRUS.												
ARMENIA.												
MAR.												
5th	10	29.748	29.090	79	66	47	W	7.0°		b f m	O	
	16	29.746	29.049	87	65	35	E by S	7.0°		b m	CK	
6th	10	29.049	29.039	78	67	63	E by S	5.6°		f m	NC	
	16	29.740	29.039	86	66	37	W by S	11.6°		m	C	
7th	10	29.713	29.041	88	68	23	W by S	7.5°		m	NC	
	16	29.080	29.069	80	67	47	S E	6.6°		f m	NC	
8th	10	29.740	29.049	86	70	40	S E	10.4°		f m	NC	
	16	29.748	29.080	88	70	49	N E	10.4°		f m	NC	
9th	10	29.744	29.026	89	60	39	N E	10.4°		b m	CK	
	16	29.803	29.076	80	72	60	S E	4.8°		b m	CK	
10th	10	29.735	29.019	80	68	27	N W	12.8°		f m	CK	
	16	29.681	29.034	81	74	70	W by N	10.4°		f m	CK	
11th	10	29.704	29.085	92	73	37	N W	12.8°		f m	CK	
SACRED ISLANDS.												
CARTAGENA.												
MADRAS.												
CYPRUS.												
ARMENIA.												
MAR.												
5th	10	29.040	29.040	75	68	50	N E W	1		b b b	K	
	16	29.215	29.000	81	73	51	N N E	1		b b b	K	
6th	10	29.051	29.078	70	67	60	N N E	2		b b b	K	
	16	29.017	29.039	85	70	64	N N E	2		b b b	K	
7th	10	29.048	29.043	81	78	78	N N E	2		b b b	K	
	16	29.737	29.062	88	69	23	N N E	2		b b b	K	
8th	10	29.011	29.026	76	70	65	N N E	2		b b b	K	
	16	29.705	29.010	86	77	64	N N E	2		b b b	K	
9th	10	29.9-3	29.016	79	74	77	N N E	2		b b b	K	
	16	29.700	29.006	88	69	70	N N E	2		b b b	K	
10th	10	29.501	29.019	88	78	60	N N E	3		b b b	CS	
	16	29.778	29.059	85	71	47	N N E	3		b b b	CS	
11th	10	29.011	29.026	86	69	51	N N E	1		b b b	CS	
	16	29.786	29.001	80	68	56	N N E	1		b b b	CS	

* Velocity of wind in miles per hour.

CALCUTTA,
The 12th March 1870.HENRY F. BLANFORD,
Meteorological Reporter to the Govt. of Bengal.

Weekly Report of Rainfall compiled at the Meteorological Reporter's Office.

District.	Station.	Rain from 21st Feb. 1870.	Rain from 28th Feb. to 6th March 1870.	Rain from 1st JANUARY 1870.		Remarks.
				Rain	Up to date.	
SOUTH-WESTERN.	Poonee	---	---	Inch.	Inch.	
	False Point	---	---	Nil	Not received	27th Feb. 1870.
	Cottack { Telegraph Office	---	---	Nil	ditto	20th Feb. 1870.
	Jail	---	---	Nil	---	6th March 1870.
	Suminipore	---	---	Nil	ditto	ditto.
	Balsore	---	---	Nil	Not received	27th Feb. 1870.
WESTERN.	Midnapore	---	---	Nil	---	6th March 1870.
	Banoorah	---	---	Nil	ditto	ditto.
	Chyebassee	---	---	Nil	Not received	20th Feb. 1870.
	Purulia	---	---	Nil	---	6th March 1870.
	Burdigan	---	---	Nil	ditto	ditto.
	Raneeungoo	---	---	Nil	ditto	ditto.
CENTRAL.	Sooree	---	---	Nil	Not received	80th Jan. 1870.
	Doodghur	---	---	Nil	---	6th March 1870.
	Burkee	---	---	Nil	Not received	6th Feb. 1870.
	Hazareebaugh	---	---	Nil	---	6th March 1870.
	Saugor Island	---	---	Nil	---	6th March 1870.
	Contim	---	---	Nil	Not received	13th Jan. 1870.
NORTH-WESTERN.	Calcutta	---	---	Nil	---	6th March 1870.
	Howrah	---	---	Nil	ditto	ditto.
	Hoogly { Jail	---	---	Nil	ditto	ditto.
	College	---	---	Nil	Not received	6th March 1870.
	Jawar	---	---	Nil	---	Not received 1st to 10th Jan.
	Kishnagur	---	---	Nil	ditto	Not received 1st Jan. to 6th Feb.
NORTHERN.	Ranaghat	---	---	Nil	ditto	Not received 1st to 6th Jan.
	Bongong	---	---	Nil	ditto	Not received 1st to 6th Jan.
	Mashparee	---	---	Nil	ditto	Not received 1st Jan. to 6th Feb.
	Chodangah	---	---	Nil	ditto	Not received 1st Jan. to 6th Feb.
	Berhampore	---	---	Nil	Not received	27th Feb. 1870.
	Kurreedpore	---	---	Nil	ditto	6th March 1870.
NORTH-EASTERN.	Burrisaul	---	---	Nil	ditto	ditto.
	Bhangulpore	---	---	Nil	---	6th March 1870.
	Manghyr	---	---	Nil	ditto	Not received 24th to 30th Jan.
	Fatna	---	---	Nil	ditto	ditto.
	Arrah	---	---	Nil	ditto	ditto.
	Buxar	---	---	Nil	ditto	ditto.
NORTHERN HILL TRACT.	Choprab	---	---	Nil	ditto	ditto.
	Chomparan	---	---	Nil	ditto	ditto.
	Bearez	---	---	Nil	ditto	ditto.
	Bampore Benionda	---	---	Nil	---	6th March 1870.
	Pubna	---	---	Nil	ditto	ditto.
	Maldah	---	---	Nil	Not received	Not received 21st to 27th Feb.
NORTHERN HILL TRACT.	Bograh	---	---	Nil	ditto	Not received 1st to 9th Jan.
	Dinagopore	---	---	Nil	ditto	Not received 14th to 20th Feb.
	Rungpore	---	---	Nil	ditto	Not received 21st to 27th Feb.
	Julipgora	---	---	Nil	Not received	27th Feb. 1870.
	Burn	---	---	Nil	ditto	6th March 1870.
	Darjeeling	---	---	Nil	ditto	6th March 1870.
NORTHERN HILL TRACT.	Gowalparah	---	---	Nil	---	6th March 1870.
	Gowainatty	---	---	Nil	Not received	27th Feb. 1870.
	Shillong	---	---	Nil	ditto	ditto.
	Newgong	---	---	Nil	ditto	ditto.
	Tespara	---	---	Nil	ditto	ditto.
	Pholebengann	---	---	Nil	ditto	ditto.
NORTHERN HILL TRACT.	Seebangpur	---	---	Nil	ditto	ditto.
	Deburaghur	---	---	Nil	ditto	ditto.
	Sannogadting	---	---	Nil	ditto	ditto.
	Cherra Poonee	---	---	Nil	ditto	ditto.
	Dacea	---	---	Nil	---	6th March 1870.
	Nymensing	---	---	Nil	---	Not received 10th to 18th Jan. and 14th to 20th Feb.
NORTHERN HILL TRACT.	Sylhet	---	---	Nil	Not received	ditto.
	Gusbar	---	---	Nil	Not received	20th Feb. 1870.
	Acaukhali Hiyalakandy	---	---	Nil	ditto	27th Feb. 1870.
	Tipperah	---	---	Nil	ditto	ditto.
	Noakhaini	---	---	Nil	ditto	6th March 1870.
	Clittra { Telegraph Office	---	---	Nil	ditto	ditto.
NORTHERN HILL TRACT.	gong	---	---	Nil	ditto	ditto.
	Jail	---	---	Nil	Not received	27th Feb. 1870.
NORTHERN HILL TRACT.	Raugamates Hill	---	---	Nil	---	6th March 1870.
	Akyab	---	---	Nil	---	6th March 1870.

CALCUTTA,
The 18th March 1870. }HENRY F. BLANFORD,
Meteorological Reporter to the Govt. of Bengal.

Abstract of Observations as received in the Meteorological Reporter's Office, Calcutta.

FOR THE MONTH OF DECEMBER, 1869.

N. B.—The Barometric data are reduced for temperature, and not for height above sea level.

STATIONS.	THERMOMETER.										HUMIDITY.										RAIN.									
	BAROMETER.					SOLAR RADIATION.					MEAN OF					MEAN OF					MEAN OF					MEAN OF				
	Mean of height above sea level	Mean of 10 hours	Mean of 12 hours	Mean of 16 hours	Mean of 24 hours	Max. Day.	Max. Night	Mean of hours																						
Pl.	29.733	29.656	29.605	29.556	29.506	105	147.3	28h	10h	137.0	10h																			
Port Blair	31.8	29.850	29.819	29.781	29.751	105	147.3	28h	10h	137.0	10h																			
Madras	32	29.919	29.946	29.926	29.919	29.905	105	147.3	28h	10h	137.0	10h	137.0	10h																
Ayub	15	29.959	29.943	29.931	29.921	29.918	105	147.3	28h	10h	137.0	10h	137.0	10h																
False Point	18.7	29.951	29.951	29.951	29.951	29.951	105	147.3	28h	10h	137.0	10h	137.0	10h																
Cuttack	80	29.971	29.953	29.952	29.953	29.952	105	147.3	28h	10h	137.0	10h	137.0	10h																
Bengal Island	0	30.013	29.957	29.948	29.947	29.946	105	147.3	28h	10h	137.0	10h	137.0	10h																
Chittagong	17.8	29.957	29.958	29.958	29.957	29.957	105	147.3	28h	10h	137.0	10h	137.0	10h																
Chittagong	18.1	29.959	29.959	29.959	29.959	29.959	105	147.3	28h	10h	137.0	10h	137.0	10h																
Jaora	15	29.977	29.949	29.937	29.937	29.937	105	147.3	28h	10h	137.0	10h	137.0	10h																
Dacca	35	29.951	29.949	29.935	29.935	29.935	105	147.3	28h	10h	137.0	10h	137.0	10h																
Cachar	73	29.944	29.945	29.945	29.945	29.945	105	147.3	28h	10h	137.0	10h	137.0	10h																
Hartidanga	27.014	27.959	27.959	27.959	27.959	27.959	105	147.3	28h	10h	137.0	10h	137.0	10h																
Bengalore	80	26.825	25.994	24.998	24.998	24.998	105	147.3	28h	10h	137.0	10h	137.0	10h																
Gia	?	29.945	29.916	29.916	29.916	29.916	105	147.3	28h	10h	137.0	10h	137.0	10h																
Patna	17	29.945	29.916	29.916	29.916	29.916	105	147.3	28h	10h	137.0	10h	137.0	10h																
Monkott	16.0	29.955	29.949	29.949	29.949	29.949	105	147.3	28h	10h	137.0	10h	137.0	10h																
Darjeeling	8.862	27.934	25.961	24.103	24.103	24.103	105	147.3	28h	10h	137.0	10h	137.0	10h																
Gowpalch	4.366	29.817	29.462	29.462	29.462	29.462	105	147.3	28h	10h	137.0	10h	137.0	10h																
Shillong	4.8015	4.52935	4.52935	4.52935	4.52935	4.52935	105	147.3	28h	10h	137.0	10h	137.0	10h																
Deorhat	6.660	29.798	29.740	29.632	29.632	29.632	105	147.3	28h	10h	137.0	10h	137.0	10h																

• No correction for index error has been applied to the Barometric readings.

CALCUTTA

Mean barometric pressure of 10 years	30.239	Mean temperature of 16 years	67.9
Ratio date of 1860	28.983	Date dicto of 1860	68.7
Defect in 1860	-4.933	Excess in 1860	-9
Return not received.			
660			

CALCUTTA,
The 11th March 1870.

Mean rainfall of 16 years	72	Mean humidity of 16 years	67.9
Average fall of 1869	67	Date dicto of 1869	68.7
Defect in 1869	-3	Excess in 1869	-9
Deficit in 1869	-3		

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Mean Pressures and Temperatures of the preceding Table reduced to sea level, with mean Wind directions.

STATIONS.	Mean Barometric pressure reduced to sea level.	Mean Temperature reduced to sea level.	Proportional prevalence Max=62.	Mean direction.
Port Blair	29.904	77.0	48	N 47° E.
Madras	29.919	.....	49	N 23° E.
Akyab	29.986	72.7	18	N 20° E.
False Point	30.074	71.9	40	N 59° E.
Cuttack	30.066	70.3	31	N 4° E.
Saugor Island	30.018	69.7	37	N 30° E.
Chittagong	30.011	69.2	44	N 29° W.
Calcutta	30.016	68.7	40	N 34° W.
Jastora	29.993	64.9	40	N
Dacca	30.008	67.7	24	N 45° W.
Cachar	30.023	66.6	53	S 56° E.
Hazaribagh	30.026	67.1	38	N 36° W.
Berhampore	30.013	67.9	44	N 29° W.
Gya	.....	.....	31	N 71° W.
Paina	30.027	62.3	99	N 11° W.
Monghyz	30.018	64.3	99	S 66° W.
Darjeeling	30.003	64.6	15	S 13° E.
Gowalparah	30.011	65.7	41	S 89° E.
Ghillong	30.067	65.0	7	N 30° E.
Benares	30.076	61.2	8	N 21° W.
Roorkee	.....	.....	.....	.....

NOTE.

Barometric Pressure.—The pressures in column 2 of the above Table for all stations below 500 feet are reduced from those given in column 3 of the Table on the previous page by adding the weight of a column of air of the temperature given in column 17. For stations of above 500 feet elevation, the reduction is made by Dippe's Table as given in Guyot's Meteorological and Physical "Tables."

Temperature.—The temperatures in column 3 are deduced from those in column 17, on the preceding page, by adding 1° Fahr. for every 350 feet.

Wind Direction.—The mean wind direction and its comparative prevalence are calculated from the whole number of wind observations recorded during the month, an equal value 2) being assigned to each day's observations, so that the maximum (exclusive prevalence of one wind) would be 62. The mean direction is calculated in the usual way by the sines and cosines of the compass points.

The above being all comparable, afford the data for constructing a meteorological chart for the month, which shall shew the isobaric and isothermal lines, and the resultant wind directions, which last may be represented by arrows of varying length proportioned to the prevalence of the wind. To these may be added the rainfall from the previous Tables.

HENRY F. BLANFORD,
Meteorological Reporter to the Government of Bengal.

Results of the Meteorological Observations taken at the Surveyor-General's Office, Calcutta, from 8th to 14th March 1870.

Month.	Date	Mean reduced Barometer. Inches.	INSTRUMENTS.		Mean Solar radiation, Thermonometer.	Mean Dry Bulb.	Mean Wet Bulb.	Computed Mean Dew-point.	Mean degree of Humidity.	WIND.			Rain.	GENERAL NOTES.
			Highest Reading.	Lowest Reading.						Prevailing direction.	Max. pressure.	Daily Velocity.		
March...	8th	29.848	90.0	78.3	124.5	60.6	68.0	60.2	0.52	W by S. SSW & NNW	...	160 ft.	...	Clear & cirri.
	9th	29.849	90.5	69.4	123.7	79.1	66.6	65.2	.51	NNW. W by N & W by S	...	118.0	...	Clear & thin cirri. Slightly foggy at 8 & 9 P.M.
	10th	29.851	91.0	68.0	125.0	79.2	67.7	65.8	.52	S by W. ESW & WSW	...	138.0	...	Clear & scattered cirri.
	11th	29.815	91.6	70.0	126.4	80.0	68.6	68.8	.53	SSW & W by S	...	125.3	...	Clear and overcast. Slightly foggy at 8 & 9 P.M.
	12th	29.818	95.8	79.8	120.0	77.6	70.5	64.5	.59	SW & SSW	24	144.7	0.03	Overcast & clouds of different kinds. Breeze wind between 3 & 1 P.M. Lightning to SSE at 7 P.M. Light rain at 7 A.M. & at 2, 3, 4, & 8 P.M. Cirri & clouds of different kinds. High wind between 5 & 6 P.M. Thunder, lightning & light rain at 5 & 6 P.M.
	13th	29.822	90.0	87.5	123.5	78.9	68.0	62.2	.61	SW, SSW & S by W	6.4	...	...	Clouds of different kinds. High wind between 5 & 6 P.M. Thunder, lightning & light rain at 5 & 6 P.M.
	14th	29.777	91.2	70.0	128.7	79.7	71.3	65.4	.63	E. SW & W	0.6	397.0*	...	Chiefly clear.

* 2 days' velocity.

The mean Barometer, as likewise the Dry and Wet Bulb Thermometer means, are derived from the twenty-four hourly observations made during the day.

The Dew-point is computed with the Greenwich constants.—The figures in column ten represent the humidity of the air, the complete saturation of which being taken at unity.—The receiver of the lower rain gauge is $1\frac{1}{2}$ feet, and that of the Anemometer 70 feet 10 inches above the level of the ground.—The velocity of wind, as indicated by Robinson's Anemometer, is registered from noon to noon.

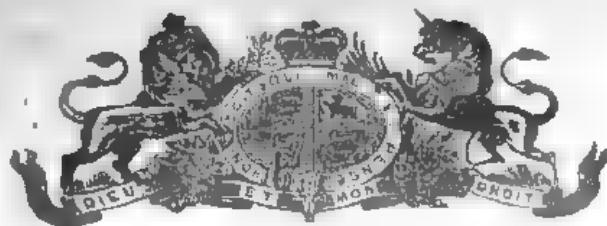
The extreme variation of temperature during the past seven days	...	24.5
The max. temperature during the past seven days	...	92.0
The max. temperature during the corresponding period of the past year	...	89.8
The mean humidity during the past seven days	...	0.58
The mean humidity during the corresponding period of the past year	...	0.76
		Inches.
The total fall of rain from 8th to 14th ... { by lower rain gauge	...	0.03
ditto ditto, average of sixteen previous years	...	Nil
ditto between the 1st January and the 14th current	...	0.17
ditto ditto, average of 18 years...	...	0.60
		2.03

The 15th March 1870.

RADHANAUTH SEN,
In temporary charge of the Observatory.

No. 12

of 1870



SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, MARCH 23, 1870.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT, separately, on payment of six Rupees per annum if delivered in Calcutta, or twelve Rupees if sent by Post.

Half-yearly Statement of the Mofassil Police Superannuation Fund, from April to September 1869.

	RECEIPTS.			CHARGES.			Balance on the 30th September 1869.
	Deductions from pay absent and other receipts.	Interest on treasury notes of this fund.	Total.	Refunds.	and Pensions granted.	Total.	
Balance on the 31st March 1869	Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.
"	.....	.....	504,079 11 7	.....	.....	.....	.....
Add interest on net balance on the 31st March 1869	"	"	16,012 13 0	"	"	"	"
April 1869	8,727 11 8	845 0 0	9,372 11 8	"	G. 42 0 0 P. 67 8 6	100 3 6	
"	8,157 9 10	895 0 0	8,542 9 10	"	G. 116 0 0 P. 8 12 0	126 19 0	
June	8,141 13 11	826 0 0	8,466 13 11	123 9 0	P. 01 12 0 G. 40 0 0	260 5 0	
July	7,392 14 4	272 8 0	8,106 8 4	31 9 0	P. 15 12 0 G. 234 0 0 C. 3 8 0	377 13 4	
August	8,449 7 8	287 8 0	8,726 15 8	0 3 6	P. 104 8 8 G. 140 0 0	245 11 0	
September	8,326 18 11	843 0 0	8,571 5 11	3 2 0	41 14 10	46 0 10	
Total	48,621 6 11	2,567 8 0	5,71,805 2 0	160 7 0	897 7 4	1,067 14 4	5,70,807 3 6

FORT WILLIAM,

The 2nd March 1870.

R. TAYLOR,

Deputy Accountant-General, Bengal.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY MAIN LINE.

Approximate Return of Traffic for Week ended 6th March 1870 on 1,131 miles open.

	COACHING TRAFFIC.			MERCANDISE AND MINERAL TRAFFIC.			Total Traffic Receipts.
	Number of Passengers	Coaching Receipts.	Weight carried.	Receipts.			
Total Traffic for the week ...	1,03,128	Rs. As. P. 1,70,545 3 0	L. s. d. 15,883 6 2	Mds. Brs. 7,63,250 0	Rs. As. P. 8,92,075 0 0	L. s. d. 35,940 4 2	Rs. As. P. 51,473 10 6
Or per mile of Railway	159 12 8		13 10 5		345 10 7	31 10 7	40 12 6
For previous 8 weeks of half-year ...	9,05,593	18,48,920 6 11	1,73,082 17 7	Rs. As. P. 81,60,923 0 0	Rs. As. P. 8,17,187 2 10	L. s. d. 31,127 7 1	49,076 0 3
Total for 9 weeks ...	10,09,711	20,55,763 9 11	1,89,720 3 0	Mds. Brs. 85,08,975 10	Rs. As. P. 88,52,296 6 0	L. s. d. 4,63,127 7 1	51,474 10 10
COMPARISON.							
Total for corresponding week of previous year	1,00,636	1,64,536 1 0	16,015 16 2	Mds. Brs. 8,70,454 20	Rs. As. P. 4,68,400 0 8	L. s. d. 48,944 10 5	50,600 10 7
Per mile of Railway corresponding week of previous year	163 2 7		14 10 2		414 3 8	37 10 5	53 10 7
Total to corresponding date of previous year	8,62,304	16,04,804 0 7	1,47,115 6 0	Mds. Brs. 70,07,966 30	Rs. As. P. 39,10,498 0 1	L. s. d. 3,59,011 7 11	34,00,126 10 6

EAST INDIAN RAILWAY JUBBULPORE LINE.

Approximate Return of Traffic for Week ended 6th March 1870 on 293 miles open.

	Rs. As. P.	L. s. d.	Mds. Brs.	Rs. As. P.	L. s. d.	L. s. d.
Total Traffic for the week ...	3,029	12,371 5 2	1,130 10 10	Mds. Brs. 45,998 10	Rs. As. P. 12,089 8 0	L. s. d. 1,103 9 3
Or per mile of Railway		35 11 11	5 2 2			5 4 4
For previous 8 weeks of half-year ...	31,099	17,405 7 10	15,951 8 8	Mds. Brs. 3,80,803 34	Rs. As. P. 87,040 14 3	L. s. d. 8,398 8 3
Total for 9 weeks ...	34,120	19,04,440 13 8	17,000 10 3	Mds. Brs. 4,80,853 0	Rs. As. P. 1,00,720 4 8	L. s. d. 10,044 10 0
COMPARISON.						
Total for corresponding week of previous year	2,980	7,075 2 7	731 1 3	Mds. Brs. 40,921 0	Rs. As. P. 12,238 6 5	L. s. d. 1,131 10 11
Per mile of Railway corresponding week of previous year		35 12 3	3 5 7			3 0 7
Total to corresponding date of previous year	33,972	1,14,037 7 2	10,415 3 4	Mds. Brs. 5,03,356 20	Rs. As. P. 142,235 10 8	L. s. d. 13,638 5 4

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for Week ended 5th March 1870 on 113½ miles open.

	Rs. As. P.	L. s. d.	Mds. Brs.	Rs. As. P.	L. s. d.	L. s. d.
Total Traffic for the week ...	25,275	13,037 1 3	1,384 15 0	Mds. Brs. 1,00,302 0	Rs. As. P. 20,040 15 11	L. s. d. 1,920 8 1
Or per mile of Railway	223	133 6 11	12 4 6			16 10 2
For previous 8 weeks of half-year ...	2,30,824	1,53,781 14 8	14,033 8 6	Mds. Brs. 845 37	Rs. As. P. 184 15 0	L. s. d. 20 3 7
Total for 10 weeks ...	3,51,055	1,68,138 16 6	15,417 11 5	Mds. Brs. 8,34,963 0	Rs. As. P. 1,48,733 1 0	L. s. d. 13,635 17 4
COMPARISON.						
Total for corresponding week of previous year	29,824	17,543 8 23	11,000 5 0	Mds. Brs. 11,19,403 0	Rs. As. P. 21,678 14 38	L. s. d. 3,825 0 5
Per mile of Railway corresponding week of previous year	244	144 14 5	12 4 0			27 10 10
Total to corresponding date of previous year	2,45,470	1,01,537 13 7	14,688 0 4	Mds. Brs. 9,38,656 30	Rs. As. P. 1,76,581 0 7	L. s. d. 16,187 10 8

CALCUTTA AND SOUTH-EASTERN STATE RAILWAY.

Approximate Return of Traffic for Week ended 6th March 1870 on 28 miles open.

	Rs. As. P.	L. s. d.	Mds. Brs.	Rs. As. P.	L. s. d.	L. s. d.
Total Traffic for the week ...	6,028	1,201 3 3	110 3 2	Mds. Brs. 18,035 14	Rs. As. P. 420 0 6	L. s. d. 48 10 11
Or per mile of Railway	218	42 14 6	5 10 0			5 5 8
For previous 8 weeks of half-year ...	45,468	8,298 10 0	761 12 5	Mds. Brs. 482 0	Rs. As. P. 18 11 0	L. s. d. 1 10 8
Total for 10 weeks ...	61,431	9,509 13 5	871 14 7	Mds. Brs. 1,17,933 6	Rs. As. P. 4,800 2 3	L. s. d. 480 0 0
COMPARISON.						
Total for corresponding week of previous year	6,292	1,310 0 92	120 12 0	Mds. Brs. 23,084 1	Rs. As. P. 1,072 0 6	L. s. d. 38 5 5
Per mile of Railway corresponding week of previous year	235	47 0 0	6 6 2			3 10 2
Total to corresponding date of previous year	52,479	10,992 10 12	1,008 0 6	Mds. Brs. 2,20,157 22	Rs. As. P. 8,377 4 3	L. s. d. 1,540 13

Meteoro logical Telegraphic Report for the period 12th to 18th March 1870.

Station	Date	Hour.	Barometer re- duced to 32° F.	Barometer re- duced to sea- level.	THERMOMETER.		Humidity Sat. = 100.	WIND.		Rain.	Weather initials.	Clouds.	
					Dry.	Wat.		Direction.	Velocity.				
	Mar.		Inches.		○	○				Inches.			
Canton.	12th	10	29.803	29.803	81.0	79.0	59	S W	
	10	29.830	29.818	81.5	79.0	43	N W	CS	KS	
	13th	10	29.883	29.800	80.0	79.0	58	S W	O	N, CK	
	16	29.705	29.723	87.9	73.5	44	S by W	b	K	K	
	16	29.831	29.819	82.0	72.5	61	W by N	b	K	K	
	16	29.704	29.722	81.2	73.0	39	W N N	b	K	K	
	16	29.834	29.879	81.0	77.0	71	S W	b	K	K	
	16	29.897	29.715	80.9	74.8	46	W by S	b	K	K	
	16	29.844	29.803	83.0	77.0	73	S S W	b	K	K	
	16	29.713	29.731	82.0	71.8	32	W by N	b	K	K	
	17th	10	29.873	29.890	82.6	78.4	80	S S W	b	S	S
	18	29.791	29.812	86.6	78.5	63	S S E	a	
	18th	10	29.705	30.064	79.3	87.0	81	W by S	a, d
	18	29.918	29.938	76.8	68.5	62	W by S	a, d	
Sabon Island.	12th	10	29.894	29.800	84	75	64	N W	1	..	b m	C, CK, S	
	10	29.831	29.810	80	71	62	N	3	..	a g	CN		
	13th	10	29.830	29.820	80	73	70	W	3	..	b n	K	
	18	29.748	29.748	82	75	70	W S V	2	..	b	J, CK		
	14th	10	29.874	29.841	82	78	82	W S W	2	..	b	CCK	
	16	29.787	29.743	83	79	83	S S W	..	..	m	CK
	16	29.880	29.839	83	79	83	W	1	..	b	C		
	16	29.751	29.737	83	79	83	S	2	..	b	KS		
	19th	10	29.830	29.832	83	79	83	W S W	3	..	b m	K	
	16	29.735	29.741	83	79	83	S W	3	..	b m	C, OK		
	17th	10	29.880	29.892	82	81	86	S W	a, m	N	
	18	29.824	29.831	83	80	87	W	1	..	a, f, m	C		
	18th	10	30.020	30.029	76	69	68	N N W	1	..	b, n	NN	
	16	29.930	29.936	78	73	77	W	1	..	a, n	NN		
Chittagong.	12th	10	29.786	29.805	87	77	61	S S W	47°	..	b	K	
	16	29.881	29.791	85	79	76	S S W	83°	..	a	KE		
	18th	10	29.703	29.805	80	72	60	S W	42°	..	d, f, g, l	KS	
	10	29.881	29.791	85	76	61	S W	11.5°	..	b	K, KS		
	14th	10	29.787	29.897	86	75	57	S S	74°	..	a, d, f, l, g	K	
	16	29.870	29.781	85	76	60	W	12.5°	..	b, f, n	KS		
	16	29.702	29.892	86	76	61	N	5.0°	..	b	C		
	16	29.658	29.706	85	75	60	W S W	9.0°	..	b	CK		
	16	29.789	29.804	85	76	64	S W	4.6°	..	b	K, KS		
	16	29.835	29.793	82	76	74	W S W	16.0°	..	b	K, KB		
	17th	10	29.818	29.828	86	76	61	P W	6.0°	..	b	K, KB	
	18	29.740	29.851	81	76	74	S S W	1.0°	..	b	K, KB		
Hissar.	12th	10	29.881	29.861	84	73	65	S by E	6°	..	b	..	
	10	29.797	29.827	84	75	64	S E	11°	..	b	..		
	13th	10	29.801	29.831	87	80	73	S S E	8°	..	b	..	
	16	29.772	29.807	87	71	60	S E	12°	..	b	..		
	14th	10	29.881	29.884	84	74	60	S S	12°	..	b	..	
	16	29.743	29.773	84	76	67	S E by E	16°	..	b	..		
	16	29.878	29.848	85	75	60	S by W	10°	..	b	..		
	18	29.741	29.771	84	77	71	S E	13°	..	b	..		
	16	29.891	29.821	83	76	50	■	12°	..	b	..		
	16	29.770	29.840	83	77	75	S E	15°	..	b	..		
	17th	10	29.920	29.850	86	75	57	S	16°	..	b	..	
	12	29.803	29.813	84	76	64	S E by E	15°	..	b	..		
	18th	10	29.898	29.898	89	74	68	N N W	9°	..	b	..	
	16	29.878	29.806	83	78	61	N N E	12°	..	b	..		
	12th	10	29.853	29.855	84	71	50	N W	10.1°	..	m	C	
	16	29.770	29.839	80	69	39	N	10.1°	..	m	CS		
	18th	10	29.806	29.828	77	71	73	W by S	19.7°	..	r, f, l, t, n, d	N, KS	
Cossack.	14th	16	29.734	29.816	83	74	63	S by W	12.0°	0.50	d, f, l, m	C, KS	
	16	29.823	29.806	80	75	78	W	0.0°	..	b	..		
	16	29.870	29.739	87	77	61	N W	11.6°	..	m	C, KS		
	16	29.829	29.911	82	77	78	S by E	8.7°	..	f m	CS, CK		
	16	29.661	29.743	83	78	63	S by E	14.0°	..	m	C		
	16	29.604	29.686	84	78	75	S by E	7.5°	..	m	CK		
	16	29.613	29.734	90	70	50	S by E	12.0°	..	m	C		
	16	29.844	29.738	84	72	53	S W	6.1°	..	m	CK		
	16	29.771	29.658	83	72	66	N W	23.0°	..	c, u, d	N, X		
	18th	10	29.967	29.861	74	76	63	W	17.0°	..	ou	KS	
	16	29.871	29.951	80	68	51	N by W	10.5°	..	w	CS, KS		
	12th	10	29.891	29.908	80	70	68	N E	1	..	b	..	
	16	29.843	29.843	83	76	71	N E by N	1	..	b	..		
	13th	10	29.887	29.905	84	70	46	N E W	1	..	b	..	
	16	29.780	29.801	81	72	53	N W	1	..	b	..		
	14th	10	29.846	29.761	78	71	59	N E E	1	..	b	..	
	16	29.782	29.797	84	73	60	N N E	1	..	b	..		
	16	29.911	29.828	80	72	68	N N W	1	..	b	..		
	16	29.823	29.814	87	80	79	N N E	1	..	b	..		
	16	29.846	29.914	77	79	77	N N E	1	..	b	..		
	16	29.803	29.818	83	70	71	N W	1	..	b	..		
	17th	10	29.975	29.890	83	74	66	Calm	
	16	29.615	29.930	81	75	70	N W	1	..	a	..		
	16	29.789	29.814	77	74	68	N E	1	..	V16	..		

* Velocity of wind in miles per hour.

CALCUTTA,
The 19th March 1870.HENRY F. BLANFORD,
Meteorological Reporter to the Govt. of Bengal.

Weekly Report of Rainfall compiled at the Meteorological Reporter's Office.

SOUTH WATER.	STATION.	Rain from 26th Feb. to 6th Mar. 1870.	Rain from 7th to 13th March 1870.	RAIN FROM 1ST JANUARY 1870.		REMARKS.
				Rain	Up to date.	
Pooree	Nil	Nil	Not received	Nil	6th March 1870.	
False Point	ditto	ditto	ditto	ditto	ditto.	
Outlook { Telegraph Office	0.60	0.60	1.60	1.60	13th March 1870.	
Juli	0.66	0.66	1.76	1.76	ditto.	
Bumbulpore	ditto	Not received	3.30	3.30	6th March 1870.	
Baluwar	ditto	0.12	1.20	1.20	13th March 1870.	
Mahanpore	Nil	Not received	0.90	0.90	6th March 1870.	
Banenorul	ditto	Nil	0.36	0.36	13th March 1870.	
Ghyabasa	ditto	0.10	1.60	1.60	ditto.	
Purulian	ditto	0.14	1.30	1.30	ditto.	
Burdwan	ditto	Nil	0.20	0.20	ditto.	
Banegunge	ditto	ditto	0.16	0.16	ditto.	
Sonore	Not received	Not received	Nil	Nil	30th Jan. 1870.	
Douglur	Nil	ditto	0.40	0.40	6th March 1870.	
Barbera	Not received	0.10	0.65	0.65	13th March 1870.	Not received 3rd to 16th Jan. and 7th Feb. to 6th Mar.
Hazareebagh	Nil	Nil	0.28	0.28	ditto	Not received 14th to 20th Feb.
Saugor Island	Nil	0.90	0.21	0.21	13th March 1870.	
Coatal	Not received	Not received	Nil	Nil	13th Jan. 1870.	
Calcutta	Nil	0.60	0.80	0.80	13th March 1870.	
Bowrah	ditto	Nil	1.42	1.42	ditto.	
Houghly { jail	ditto	0.10	1.10	1.10	ditto.	
College	Not received	Not received	Nil	Nil	13th March 1870.	
Jeora	Nil	0.04	0.94	0.94	6th March 1870.	Not received 1st to 16th Jan.
Kishnagar	ditto	0.16	0.16	0.16	ditto	Not received 1st Jan. to 6th Feb.
Ranaghat	ditto	ditto	Nil	Nil	ditto	
Dongong	ditto	ditto	0.40	0.40	ditto	Not received 1st to 9th Jan.
Maharpore	ditto	ditto	Nil	Nil	ditto	Not received 1st Jan. to 6th Feb.
Chaudhugah	ditto	ditto	ditto	ditto	ditto	Not received 1st Jan. to 6th Feb.
Barhampore	Not received	ditto	ditto	ditto	27th Feb. 1870.	
Furroopore	Nil	Nil	ditto	ditto	13th March 1870.	Not received 7th to 13th Feb.
Burrisal	ditto	ditto	ditto	ditto	ditto.	
Bhaugulpore	Nil	Nil	0.60	0.60	13th March 1870.	Not received 24th to 30th Jan.
Monghyr	ditto	ditto	0.18	0.18	ditto.	
Fatna	ditto	ditto	0.04	0.04	ditto.	
Arrah	ditto	ditto	Nil	Nil	ditto.	
Ruxar	ditto	ditto	0.16	0.16	ditto.	
Chupralli	ditto	ditto	Nil	Nil	ditto.	
Chunupurian	ditto	ditto	ditto	ditto	0th March 1870	Not received 3rd to 16th Jan.
Benaras	ditto	Not received	0.06	0.06	13th March 1870.	
Rampore Boalesh	Nil	Nil	Nil	Nil	13th March 1870.	
Pulna	ditto	0.02	0.02	0.02	ditto.	
Maldih	ditto	Nil	Nil	Nil	ditto.	Not received 21st to 27th Feb.
Bograh	ditto	ditto	ditto	ditto	ditto.	Not received 1st to 8th Jan.
Dumarpore	ditto	ditto	1.20	1.20	ditto.	Not received 14th to 20th Feb.
Rungpore	ditto	Not received	Nil	Nil	6th March 1870	Not received 21st to 27th Feb.
Julipore	Not received	Nil	ditto	ditto	13th March 1870.	Not received 23rd Feb. to 6th March.
Bixa	ditto	Not received	Nil	Nil	13th March 1870.	
Darjeeling	Nil	0.02	1.83	1.83	13th March 1870.	
Gowalparah	Nil	Not received	0.15	0.15	6th March 1870	
Gorakhaty	0.40	ditto	0.70	0.70	ditto.	
Shillong	0.90	ditto	0.80	0.80	ditto.	
Nawabganj	Nil	ditto	0.70	0.70	ditto	Not received 1st Jan. to 13th Feb.
Tegpore	0.20	ditto	1.33	1.33	ditto.	
Dholabugana	Not received	ditto	1.60	1.60	27th Feb. 1870.	
Seobsanchar	0.10	ditto	1.40	1.40	6th March 1870.	
Debronghur	0.50	ditto	0.96	0.96	ditto.	Not received 1st to 8th Jan.
Sainmogoditing	Not received	ditto	0.25	0.25	27th Feb. 1870.	Not received 1st and 2nd Jan.
Cherra Poonee	ditto	ditto	.....	.....	.....
Uaco	Nil	Nil	Nil	Nil	13th March 1870.	Not received 10th to 16th Jan. and 14th to 20th Feb.
Mymensing	ditto	0.02	0.07	0.07	ditto.	
Sylhet	Not received	Not received	0.80	0.80	27th Feb. 1870.	
Cochin	Nil	ditto	0.00	0.00	6th March 1870.	
Aerukhali Hylakandy	ditto	ditto	0.83	0.83	ditto.	
Tipperah	ditto	ditto	0.18	0.18	ditto.	
Nacknally	ditto	ditto	Nil	Nil	ditto.	
Chittagong { Telegraph Office	0.10	Nil	0.10	0.10	13th March 1870.	
Gong { Jail	Nil	Not received	0.18	0.18	6th March 1870.	
Hangmanates Hill	ditto	ditto	1.00	1.00	ditto.	
Akyab	Nil	Nil	Nil	Nil	13th March 1870.	

CALCUTTA,
The 19th March 1870. }HENRY F. BLAMFORD,
Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Surveyor-General's Office, Calcutta, from 1st to 7th March 1870.

Month.	Date.	Mean reduced Barometer, Inches.	THERMOMETER.				Mean Solar radiation.	Mean Dry Bulb.	Mean Wet Bulb.	Computed Mean Dew-point.	Mean degree of humidity.	WIND.			GENERAL REMARKS.
			Highest Reading.	Lowest Reading.	Max.	Mean.						prevailing direction.	Max. pressure.	Daily velocity.	Rain.
March...	1st	29.033	89.0	63.0	125.8	76.2	66.9	69.4	60.0	S S W & W S W	...	101.7	...	Clear. Foggy at 6 A.M.	
	2nd	29.1	92.7	65.7	125.6	79.0	69.7	63.2	60	S S W	...	170.6	...	Clear. Slightly foggy at 6 A.M.	
	3rd	29.1	93.0	65.3	127.2	79.3	68.6	57.7	40	S S W & W N W	...	160.0	...	Clear & cirri.	
	4th	29.2	91.6	63.0	129.0	79.6	67.0	58.2	50	W by N & S by W	...	121.0	...	Clear & cirri.	
	5th	29.7	92.4	70.6	129.0	80.0	70.1	63.2	68	S W & S S W	...	90.0	...	Clear. Foggy from 2 to 7 A.M.	
	6th	29.7	91.7	69.6	124.0	79.5	71.2	65.4	68	W by S, W S W & S S W	...	92.6	...	Clear & cirri. Slightly foggy from 5 to 7 A.M.	
	7th	29.0	93.0	70.6	127.5	81.2	71.4	64.5	58	S W, S S W & W S W	...	117.9	...	Clear & cirri.	

The mean Barometer as likewise the Dry and Wet bulb Thermometer means are derived from the twenty-four hourly observations made during the day.

The Dew-point is computed with the Greenwich constants.—The figures in column ten represent the humidity of the air, the complete saturation of which being taken at unity.—The receiver of the lower rain gauge is $1\frac{1}{2}$ feet, and that of the Anemometer 70 feet 10 inches above the level of the ground.—The velocity of wind, as indicated by Robinson's Anemometer, is registered from noon to noon.

The extreme variation of temperature during the past seven days	...	80.0
The max. temperature during the past seven days	...	93.0
The max. temperature during the corresponding period of the past year	...	89.5
The mean humidity during the past seven days	...	0.57
The mean humidity during the corresponding period of the past year	...	0.77
The total fall of rain from 1st to 7th		Inches.
ditto	{ by lower rain gauge	Nil
ditto	{ by Anemometer gauge	Nil
Ditto ditto, average of 16 previous years	..	0.51
Ditto between the 1st January and the 7th current	..	0.77
Ditto ditto, average of 16 years...	..	1.86

RADHANAUTH SEN,
In temporary charge of the Observatory.

The 8th March 1870.

Results of the Meteorological Observations taken at the Surveyor-General's Office, Calcutta, from 15th to 21st March 1870.

Month.	Date	Mean reduced Barometer.		Thermome- ter.		Max. Solar radiation.		Mean Dry Bulb.		Mean Wet Bulb.		Computable Mean Daily point of Heat.		Mean Degree of Humidity.		Wind.		Rain.	General Remarks.
		Inches.	○	Highest Reading.	Lowest Reading.	○	○	○	○	○	○	○	○	○	○	○	Max. pressure.	Belly velocity.	
March	15th	29.779	90.4	76.0	131.4	89.1	76.0	71.7	0.73	S by W, S S W & S W	...	121.0	...	Sendus, clear & cumuli.					
	16th	29.765	92.0	74.5	130.6	89.3	74.9	69.7	.67	S S W	...	120.3	...	Clear & clear.					
	17th	29.826	87.2	77.2	124.6	81.3	78.8	71.9	.74	S S W & S by E	2.4	100.3	...	Sratonial & over- cast. Brisk wind from S $\frac{1}{2}$ to 10 P.M.					
	18th	29.948	77.7	70.0	114.0	73.5	67.6	63.3	.72	W & W by S	...	122.4	...	Overcast & cirro- cumuli. Driz- zled at 7, 9, & 10 A.M. & 4 P.M.					
	19th	29.905	88.0	70.0	129.6	78.3	69.7	63.7	.69	S & W by S	...	100.6	...	Clear, cumuli & cirri.					
	20th	29.894	90.0	71.5	128.2	80.7	71.2	64.5	.60	S & W by S	...	75.5	...	Cirri & clear.					
	21st	29.93	93.3	74.0	131.0	82.9	72.0	64.4	.55	W & S	...	118.0	...	Cirri & clear.					

The mean Barometer, as likewise the Dry and Wet Bulb Thermometer means, are derived from the twenty-four hourly observations made during the day.

The Dew-point is computed with the Greenwich constants.—The figures in column ten represent the humidity of the air, the complete saturation of which being taken at unity.—The receiver of the lower rain gauge is 1½ feet, and that of the Anemometer 70 feet 10 inches above the level of the ground.—The velocity of wind, as indicated by Robinson's Anemometer, is registered from noon to noon.

The 22nd March 1870.

GOPEENAUTH SEN,
In charge of the Observatory.

No. 13

1870



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, MARCH 30, 1870.

OFFICIAL PAPERS.

Nos. Subscribers to the GAZETTE may receive the SUPPLEMENT, separately, on payment of six Rupees per annum if delivered in Calcutta, or twelve Rupees if sent by Post.

Proceedings of the Council of the Lieutenant-Governor of Bengal for the purpose of making Laws and Regulations.

Saturday, the 19th March 1870.

Present:

His Honor THE LIEUTENANT-GOVERNOR OF BENGAL, Presiding.

J. GRAHAM, Esq., Acting Advocate-General,
THE HON'BLE ASHLEY EDEN,
A. MONEY, Esq., C.B.,
A. R. THOMPSON, Esq.,
V. H. SCHALCH, Esq.,
BABOO ISSUR CHUNDER GHOSAL,

BABOO CHUNDER MOHUN CHATTERJEE,
T. M. ROBINSON, Esq.,
F. F. WYMAN, Esq.,
AND
BABOO JOTENDRO MOHUN TAGORE.

NEW MEMBER.

MR. GRAHAM took the oath of allegiance and the oath that he would faithfully fulfil the duties of his office.

CALCUTTA PORT IMPROVEMENT.

THE HON'BLE ASHLEY EDEN moved that the report of the select committee on the Bill to provide for the maintenance and improvement of the Port of Calcutta be taken into consideration in order to the settlement of the clauses of the Bill, and that the clauses be considered for settlement in the form recommended by the select committee. He said that before going into the discussion of the Bill, clause by clause, he proposed briefly to run through the Bill, and draw the attention of the council to the principal amendments made by the committee, and give the reasons on which those amendments were based.

As regards the title of the Bill, he would observe that it had been altered so as to accord more nearly with the scope and object of the Bill, the original title being considered too wide in its terms. But he would not go into that point then, as the matter would be brought prominently under consideration when they proceeded to consider the clauses of the Bill.

The first important amendment was in the number of the commissioners to be appointed under Section 2. There seemed to be a strong desire to have seven commissioners independently of the chairman and the vice-chairman; therefore as the Bill stood it provided for the appointment of nine persons, of whom one should be the chairman and another the vice-chairman. The committee had also limited the tenure of office of the commissioners to two years, making them eligible for re-appointment; it seemed expedient that there should be some period fixed at the expiration of which the appointment should lapse.

As regards Section 7, which provided for a specification of the amount of debt at present due from the commissioners to the Secretary of State for India, the select committee had been obliged to leave the schedule untouched, as they were not in a position to fix the exact sum which would be due on account of the works to be taken over by the commissioners. There

seemed to be some doubt as to what the section really meant, and he would therefore explain that the sum referred to was simply the actual cost of the jetties erected under the present Port Improvement Act, and did not refer to any moorings or other works belonging to the port fund.

The committee had introduced a new section, 9, enabling the commissioners to anticipate the payments due to the Secretary of State under the provisions of Schedule B.

From Section 27 the committee had struck out the provision which made the proceedings of the commissioners open to the inspection of the public on payment of a fee of eight annas: it seemed very undesirable to put it into the power of every body to call and make an inspection of the minutes of the commissioners' proceedings, which might lead to great mischief, and a good deal of intriguing and jobbery by contractors and others. If the accounts were published there was no reason whatever for making the commissioners' proceedings public.

The committee had also struck out Section 37 of the original Bill, which compelled the commissioners to record resolutions made by the Lieutenant-Governor, and to adopt such resolutions as their own. The Lieutenant-Governor had already the power of vetoing any resolution of the commissioners under a previous section, and it seemed anomalous to give him the further power of passing an order against the opinion of the commissioners, and that they should then be compelled to adopt the resolution as their own.

The old Sections 38 to 41 had been consolidated into the present Section 35, which provided that no new work should be commenced by the commissioners until a plan and estimate of such work shall have been submitted to the Lieutenant-Governor and sanctioned by him, the further sanction of the Governor General of India in Council being required if the estimated cost of the work exceeded two lakhs of rupees. The section was a new and short one, and the procedure under it was a great deal simpler than under the sections for which it was substituted.

Section 34 of the original Bill, relating to the mode of executing contracts, had also been struck out as unnecessary.

The new Section 39 might, perhaps, cause a misunderstanding if its purport was not explained: it enabled the commissioners to provide steam-tugs and to employ them in towing vessels in the river. It was not intended that the commissioners should start tug vessels in competition with private companies, but it seemed certain that the commissioners must keep tug steamers for their own works, and it would be very unreasonable if the commissioners should not be at liberty, when they had no employment for their steamers, to use them in any remunerative way. The primary object would be the employment of the steamers in connection with the working of the jetties; when not able to employ them in that way, it was only right that they should be able to make a profit from them instead of leaving them idle.

The committee had struck out the proviso to Section 42 of the original Bill as to the total amount of money to be raised by the commissioners. It seemed an anomalous provision in a Bill like the present. It would be absolutely necessary to obtain whatever money was really required for the sanctioned works, and as the money would practically have to be given by the Government, and the entire control would be in the hands of the Government, it seemed unnecessary to limit the amount to be raised.

From Section 51, the select committee had omitted the provision which was contained in Section 53 of the original Bill permitting the landing and embarkation of certain articles free of charge. The committee could see no reason why some small rate should not be levied on all articles which made use of the commissioners' works, which were constructed and kept in repair for the convenience of trade: the articles enumerated in the section, bricks, straw, and market produce, were as well able to pay a toll as any other.

From Section 52, which compelled the commissioners to provide ghâts and bathing places, the committee had struck out that portion of the proviso which compelled the commissioners to provide such sufficient bathing ghâts "as shall be required for the convenience of the public." Under the section as amended the commissioners would be required to provide a ghat for every ghat they took away, but they were not to be compelled to provide an unlimited number of ghâts.

Section 54 was a new section enabling the commissioners to take possession of jetties, piers, and so forth, erected or built without the sanction of the Lieutenant-Governor, below high-water mark within one mile of the limits of the port, if the limits of the port should be extended so as to include the jetty, pier, or other work so made. That seemed rather a strong proceeding at first sight, but any person desiring to erect any such work had only to guard himself by first obtaining permission to undertake the work. The river-bed below high-water mark was the property of the crown, and if persons chose to erect works in the river below high-water mark without due permission, they must suffer for their want of precaution and be treated as trespassers.

Sections 55 to 60 were new, and gave power to the commissioners to require the conservator of the port to order up any ship as it came in to take up a certain position alongside a jetty for unloading. There seemed to be some misapprehension as to the effect of these sections. As the sections stood no ship could be moved after commencing to discharge or take in cargo: the sections would only apply to vessels as they came in, or before they had commenced to load or unload. Section 60 contained the same provisions as regards country boats.